



Independent Statistics & Analysis
U.S. Energy Information
Administration

Natural Gas Monthly

July 2019



This report was prepared by the U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy. By law, EIA's data, analyses, and forecasts are independent of approval by any other officer or employee of the United States Government. The views in this report therefore should not be construed as representing those of the Department of Energy or other Federal agencies.

Contacts

The *Natural Gas Monthly* (NGM) is prepared by the U.S. Energy Information Administration (EIA), U.S. Department of Energy (DOE), under the direction of the Director of the Office of Petroleum and Biofuels Statistics, Robert Merriam.

General inquiries about energy data can be directed to EIA's Office of Communications via email at infoctr@eia.gov.

Specific questions about the information in this report may be directed to:

Consumption and Consumer Prices.....	Michael Kopalek (michael.kopalek@eia.gov , 202-586-4001)
Imports and Exports.....	Jose Villar (jose.villar@eia.gov , 202-586-9613)
Natural Gas Production	Jeffrey Little (jeffrey.little@eia.gov , 202-586-6284)
Quality	Vicki Spangler (vicki.spangler@eia.gov , 202-586-8555)
Supplemental Gaseous Fuels	Michael Kopalek (michael.kopalek@eia.gov , 202-586-4001)
Underground Storage	Jose Villar (jose.villar@eia.gov , 202-586-9613)

Other contributors to this report include Sharon Belcher, Bridgette Brown, and Gary Long.

Preface

The *Natural Gas Monthly* (NGM) highlights activities, events, and analyses of interest to public and private sector organizations associated with the natural gas industry. Volume and price data are presented each month for natural gas production, distribution, consumption, and interstate pipeline activities. Producer-related activities and underground storage data are also reported.

The data in this publication are collected on surveys conducted by EIA to fulfill its responsibilities for gathering and reporting energy data. Geographic coverage is the 50 States and the District of Columbia.

Explanatory Notes supplement the information found in tables of the report. A description of the data collection surveys that support the NGM is provided in the Data Sources section. A glossary of the terms used in this report is also provided to assist readers in understanding the data presented in this publication.

All natural gas volumes are reported at a pressure base of 14.73 pounds per square inch absolute (psia) and at 60 degrees Fahrenheit. Cubic feet are converted to cubic meters by applying a factor of 0.02831685.

Contents

Highlights	1
Common Abbreviations	2
Appendices	
A. Explanatory Notes.....	101
B. Data Sources	109
C. Statistical Considerations.....	115
Glossary	125

Tables

1. Summary of Natural Gas Supply and Disposition in the United States, 2014-2019.....	3
2. Natural Gas Consumption in the United States, 2014-2019	5
3. Selected National Average Natural Gas Prices, 2014-2019.....	7
4. U.S. Natural Gas Imports, 2017-2019.....	9
5. U.S. Natural Gas Exports, 2017-2019	14
6. Gross Withdrawals of Natural Gas in Selected States and the Federal Gulf of Mexico, 2014-2019.....	24
7. Marketed Production of Natural Gas in Selected States and the Federal Gulf of Mexico, 2014-2019.....	26
8. Underground Natural Gas Storage - All Operators, 2014-2019	29
9. Underground Natural Gas Storage - by Season, 2017-2019	30
10. Underground Natural Gas Storage - Salt Cavern Storage Fields, 2014-2019.....	31
11. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 2014-2019.....	32
12. Net Withdrawals from Underground Storage, by State, 2017-2019	33
13. Activities of Underground Natural Gas Storage Operators, by State, May 2019.....	38
14. Natural Gas Deliveries to Residential Consumers, by State, 2017-2019.....	39
15. Natural Gas Deliveries to Commercial Consumers, by State, 2017-2019	44
16. Natural Gas Deliveries to Industrial Consumers, by State, 2017-2019	49
17. Natural Gas Deliveries to Electric Power Consumers, by State, 2017-2019	54
18. Natural Gas Deliveries to All Consumers, by State, 2017-2019	59
19. Average Citygate Price, by State, 2017-2019	64
20. Average Price of Natural Gas Sold to Residential Consumers, by State, 2017-2019	69
21. Average Price of Natural Gas Sold to Commercial Consumers, by State, 2017-2019.....	74
22. Average Price of Natural Gas Sold to Industrial Consumers, by State, 2017-2019.....	79
23. Average Price of Natural Gas Sold to Electric Power Consumers, by State, 2017-2019	84
24. Percentage of Total Deliveries Included in Residential, Commercial, and Industrial Prices, by State, 2017-2019.....	89
25. Heating Value of Natural Gas Consumed, by State, 2017-2019	96
A1. Methodology for Most Recent Monthly Natural Gas Supply and Disposition Data of Tables 1 and 2	101
C1. Standard Error for Natural Gas Deliveries and Price to Consumers by State, May 2019.....	123

Figures

1. Production, Consumption, and Net Imports of Natural Gas in the United States, 2016-2019	4
2. Natural Gas Deliveries to Consumers in the United States, 2016-2019.....	6
3. Citygate and Consumer Prices of Natural Gas in the United States, 2016-2019	8
4. Spot Prices of Natural Gas and Natural Gas Plant Liquids in the United States, 2016-2019	8
5. Working Gas in Underground Natural Gas Storage in the United States, 2016-2019	29
6. Percentage of Total Deliveries Included in Residential, Commercial, and Industrial Price Estimates, 2016-2019	95

Highlights

This issue of the *Natural Gas Monthly* (NGM) contains state and national-level estimates of natural gas volume and price data through May 2019.

Recent analyses of the natural gas industry are available on the [EIA website](#) by clicking the “[Natural Gas](#)” link under the “Sources & Uses” tab. The two reports listed under “Regular Weekly Releases” along the right side of the natural gas page are updated regularly. These reports are:

- [Weekly Natural Gas Storage Report](#) -- a weekly report containing estimates of natural gas in underground storage for the United States and five regions of the United States released each Thursday at 10:30 a.m. at the EIA website, except for certain weeks with Federal holidays. The report contains estimates of storage for the current and prior week and comparisons to previous periods. Links are provided to papers describing survey Form EIA-912, "Weekly Underground Natural Gas Storage Report," and the estimation methodology.
- [Natural Gas Weekly Update](#) -- a current analysis of the industry each week, including information on natural gas spot and futures prices and storage activities. This page also provides links to numerous other EIA sites dealing with natural gas.

Other natural gas data and analyses may be found through the “Natural Gas” section of EIA’s website.

Abbreviations

Common Abbreviations Used in the *Natural Gas Monthly*

Bcf	Billion cubic feet
CNG	Compressed natural gas
DOE	U.S. Department of Energy
EIA	Energy Information Administration, U.S. Department of Energy
FERC	Federal Energy Regulatory Commission
GOM	Gulf of Mexico
LNG	Liquefied natural gas
Mcf	Thousand cubic feet
MMcf	Million cubic feet
NGPL	Natural gas plant liquid
Tcf	Trillion cubic feet

Table 1. Summary of natural gas supply and disposition in the United States, 2014-2019

(billion cubic feet)

Year and Month	Gross Withdrawals	Marketed Production	NGPL Production ^a	Dry Gas Production ^b	Supplemental Gaseous Fuels ^c	Net Imports	Net Storage Withdrawals ^d	Balancing Item ^e	Consumption ^f
2014 Total	31,405	27,498	1,608	25,890	60	1,181	-254	-283	26,593
2015 Total	32,915	28,772	1,707	27,065	59	935	-547	-268	27,244
2016 Total	32,592	28,400	1,808	26,592	57	671	340	-216	27,444
2017									
January	2,749	2,355	154	2,202	5	20	687	-13	2,901
February	2,505	2,146	140	2,005	5	*	292	28	2,329
March	2,812	2,431	159	2,272	5	9	281	-39	2,529
April	2,703	2,355	154	2,201	5	-9	-236	-34	1,928
May	2,787	2,430	159	2,271	5	-10	-348	-22	1,897
June	2,693	2,370	155	2,215	5	-14	-287	-8	1,912
July	2,764	2,479	162	2,317	6	2	-155	-37	2,133
August	2,781	2,478	162	2,316	6	1	-201	-17	2,105
September	2,767	2,434	159	2,275	5	-21	-323	-14	1,923
October	2,907	2,550	166	2,384	6	-37	-254	-62	2,037
November	2,884	2,535	165	2,370	6	-45	90	-70	2,351
December	3,006	2,635	172	2,463	6	-22	707	-88	3,066
Total	33,357	29,197	1,906	27,291	66	-125	254	-375	27,110
2018									
January	€2,959	€2,586	171	€2,415	6	*	896	-7	3,310
February	€2,724	€2,385	163	€2,222	6	-38	467	44	2,700
March	€3,048	€2,673	188	€2,485	6	-21	285	18	2,773
April	€2,960	€2,598	185	€2,413	5	-37	-32	-13	2,336
May	€3,082	€2,713	193	€2,521	5	-45	-423	-10	2,047
June	€2,955	€2,641	188	€2,453	6	-34	-349	-26	2,050
July	€3,108	€2,784	199	€2,585	5	-59	-186	2	2,346
August	€3,180	€2,845	205	€2,640	6	-74	-235	-25	2,311
September	€3,135	€2,790	200	€2,590	6	-88	-334	-16	2,159
October	€3,272	€2,909	206	€2,702	6	-92	-291	-50	2,276
November	€3,233	€2,855	198	€2,657	6	-125	205	-54	2,688
December	€3,353	€2,957	201	€2,756	5	-106	320	-17	2,959
Total	€37,009	€32,735	2,296	€30,439	68	-719	323	-154	29,956
2019									
January	€3,356	€2,955	204	€2,750	5	-74	709	R-9	R3,381
February	€3,050	€2,697	191	€2,506	6	R-97	568	R-4	R2,980
March	RE3,386	RE3,005	213	RE2,792	6	R-120	245	R-39	2,883
April	RE3,303	RE2,920	208	RE2,713	5	R-131	-382	R-22	2,183
May	€3,386	€3,002	216	€2,786	4	-160	-472	-52	2,106
2019 5-Month YTD	€16,482	€14,579	1,032	€13,547	26	-581	668	-127	13,533
2018 5-Month YTD	€14,773	€12,955	900	€12,055	28	-141	1,192	32	13,167
2017 5-Month YTD	13,555	11,716	765	10,952	26	10	677	-80	11,584

^a Monthly natural gas plant liquid (NGPL) production, gaseous equivalent, is derived from sample data reported by gas processing plants on Form EIA-816, "Monthly Natural Gas Liquids Report," and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production."

^b Equal to marketed production minus NGPL production.

^c Supplemental gaseous fuels data are collected only on an annual basis except for the Dakota Gasification Co. coal gasification facility which provides data each month. The ratio of annual supplemental fuels (excluding Dakota Gasification Co.) to the sum of dry gas production, net imports, and net withdrawals from storage is calculated. This ratio is applied to the monthly sum of these three elements. The Dakota Gasification Co. monthly value is added to the result to produce the monthly supplemental fuels estimate.

^d Monthly and annual data for 2014 through 2017 include underground storage and liquefied natural gas storage. Data for January 2018 forward include underground storage only. See Appendix A, Explanatory Note 5, for discussion of computation procedures.

^e Represents quantities lost and imbalances in data due to differences among data sources. Net imports and balancing item for 2014 and 2015 excludes net intransit deliveries. These net intransit deliveries were (in billion cubic feet): 74 for 2017; 70 for 2016; 57 for 2015; and 27 for 2014. See Appendix A, Explanatory Note 7, for full discussion.

^f Consists of pipeline fuel use, lease and plant fuel use, vehicle fuel, and deliveries to consuming sectors as shown in Table 2.

* Volume is between -500 MMcf and 500 MMcf.

^R Revised data.

^E Estimated data.

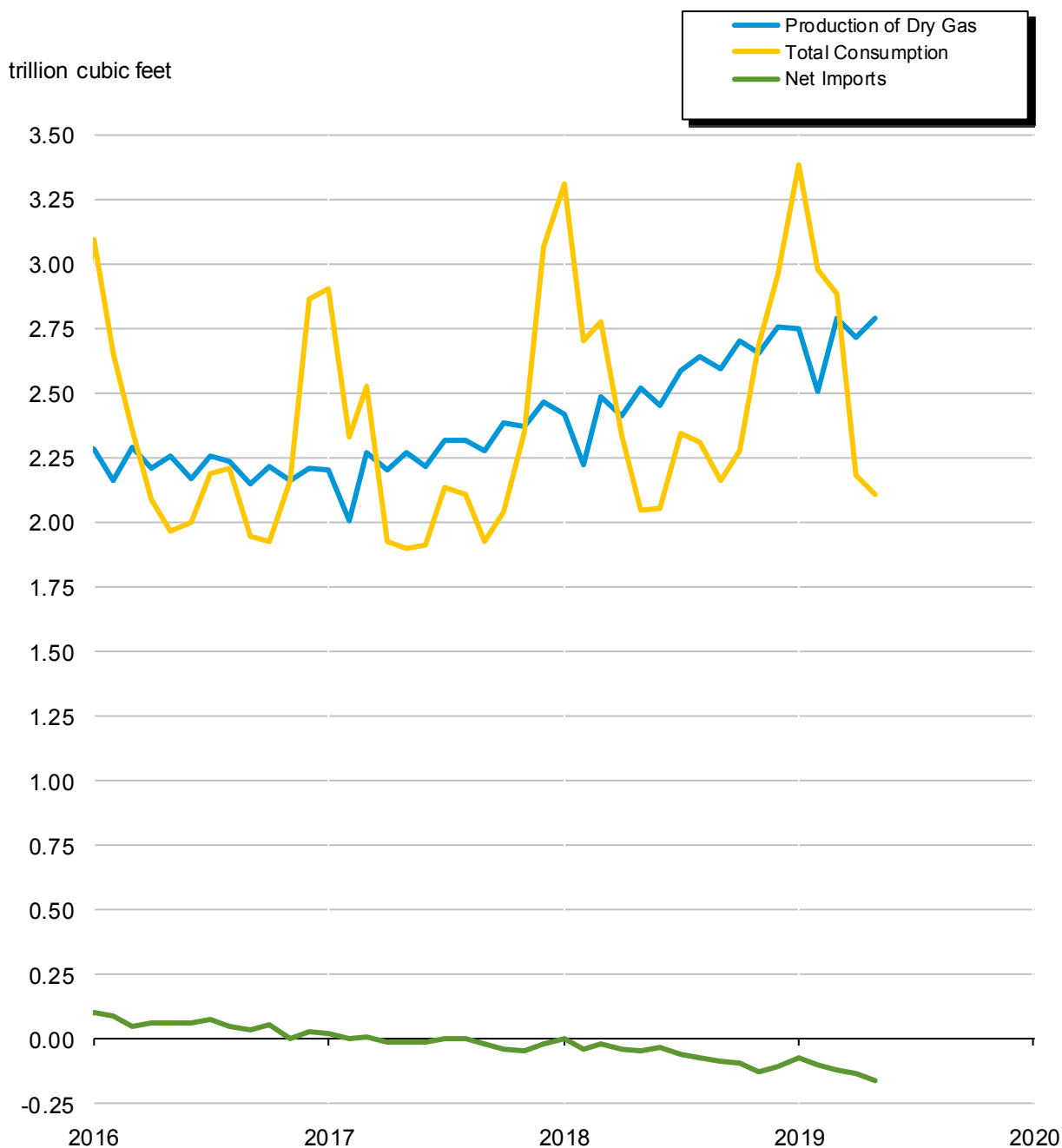
^{RE} Revised estimated data.

Notes: Data for 2014 through 2016 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 2014-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-191, "Monthly Underground Gas Storage Report"; EIA computations and estimates; and Office of Fossil Energy, "Natural Gas Imports and Exports." See Table 7 for detailed source notes for Marketed Production. See Appendix A, Notes 3 and 4, for discussion of computation and estimation procedures and revision policies.

Figure 1

Figure 1. Production, consumption, and net imports of natural gas in the United States, 2016-2019



Sources: 2015-2017: Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-191, "Monthly Underground Gas Storage Report"; EIA computations and estimates; and Office of Fossil Energy, "Natural Gas Imports and Exports."

Table 2. Natural gas consumption in the United States, 2014-2019

(billion cubic feet, or as indicated)

Year and Month	Lease and Plant Fuel ^a	Pipeline and Distribution Use ^b	Delivered to Consumers						Total Consumption	Heating Value ^c (Btu per cubic foot)
			Residential	Commercial	Industrial	Electric Power	Vehicle Fuel	Total		
2014 Total	1,512	700	5,087	3,466	7,646	8,146	35	24,381	26,593	1,032
2015 Total	1,576	678	4,613	3,202	7,522	9,613	39	24,989	27,244	1,037
2016 Total	1,545	687	4,347	3,110	7,729	9,985	42	25,212	27,444	1,037
2017										
January	126	78	831	479	735	647	4	2,696	2,901	1,039
February	115	63	579	359	650	559	4	2,152	2,329	1,038
March	130	68	580	372	697	679	4	2,331	2,529	1,037
April	126	51	279	212	632	624	4	1,751	1,928	1,036
May	130	50	199	178	629	706	4	1,717	1,897	1,035
June	127	50	124	138	615	854	4	1,735	1,912	1,035
July	133	56	107	134	624	1,074	4	1,943	2,133	1,035
August	133	56	104	137	638	1,034	4	1,916	2,105	1,035
September	130	51	115	145	616	862	4	1,742	1,923	1,036
October	137	54	205	201	657	780	4	1,847	2,037	1,035
November	136	63	468	322	696	663	4	2,153	2,351	1,037
December	141	83	822	487	761	768	4	2,842	3,066	1,039
Total	1,564	722	4,412	3,164	7,949	9,250	49	24,824	27,110	1,036
2018										
January	£139	£88	976	548	771	785	£4	3,084	3,310	1,038
February	£128	£72	687	420	689	701	£3	2,501	2,700	1,037
March	£143	£74	656	414	727	755	£4	2,556	2,773	1,037
April	£139	£62	439	299	687	707	£4	2,135	2,336	1,035
May	£145	£54	168	162	660	853	£4	1,847	2,047	1,034
June	£142	£55	119	140	639	952	£4	1,854	2,050	1,035
July	£149	£62	105	135	655	1,236	£4	2,135	2,346	1,035
August	£152	£62	99	141	658	1,195	£4	2,097	2,311	1,034
September	£149	£57	112	145	647	1,045	£4	1,952	2,159	1,035
October	£156	£61	255	235	671	895	£4	2,060	2,276	1,036
November	£153	£72	595	382	726	756	£4	2,463	2,688	1,037
December	£158	£79	763	455	756	744	£4	2,721	2,959	1,038
Total	£1,754	£797	4,974	3,476	8,286	10,626	£43	27,405	29,956	1,036
2019										
January	£158	£90	£950	£553	791	834	£4	£3,132	£3,381	1,038
February	£145	£79	£804	£470	710	769	£4	£2,757	£2,980	1,037
March	£161	£77	686	423	£740	792	£4	2,646	2,883	1,037
April	£156	£58	327	246	667	724	£4	£1,968	2,183	1,037
May	£161	£56	212	185	667	822	£4	1,889	2,106	1,035
2019 5-Month YTD	£781	£360	2,979	1,877	3,574	3,942	£20	12,392	13,533	1,037
2018 5-Month YTD	£694	£350	2,925	1,842	3,534	3,803	£18	12,122	13,167	1,036
2017 5-Month YTD	628	309	2,468	1,601	3,343	3,215	20	10,647	11,584	1,037

^a Plant fuel data and lease fuel data are collected only annually. Monthly lease and plant fuel use is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next 12 months.

^b Published pipeline and distribution use data are based on reports collected on an annual basis. Monthly pipeline and distribution use data are estimated from monthly total consumption (excluding pipeline and distribution use) by assuming that the preceding annual percentage remains constant for the next 12 months. Pipeline and distribution use volumes include Line Loss, defined as known volumes of natural gas that were the result of leaks, damage, accidents, migration, and/or blow downs, as well as fuel used in liquefaction and regasification.

^c Heating value is the average number of British thermal units per cubic foot of natural gas as reported on EIA-857 and EIA-176. See Appendix A, Explanatory Note 11, for further information.

^R Revised data.

^E Estimated data.

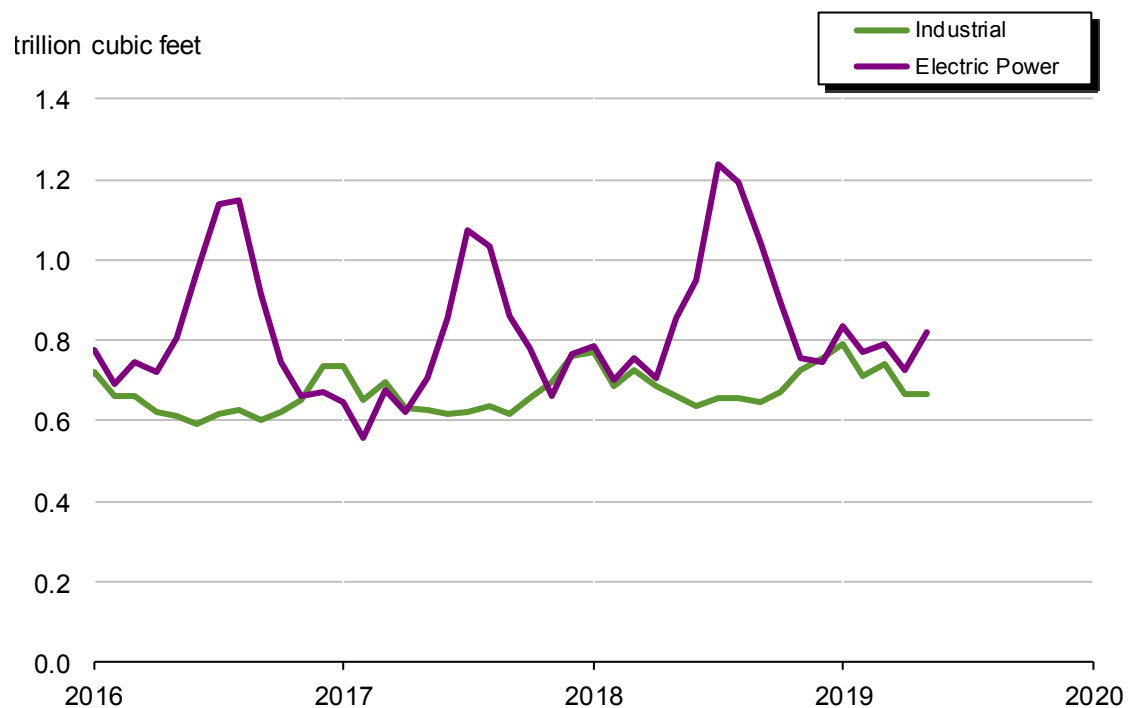
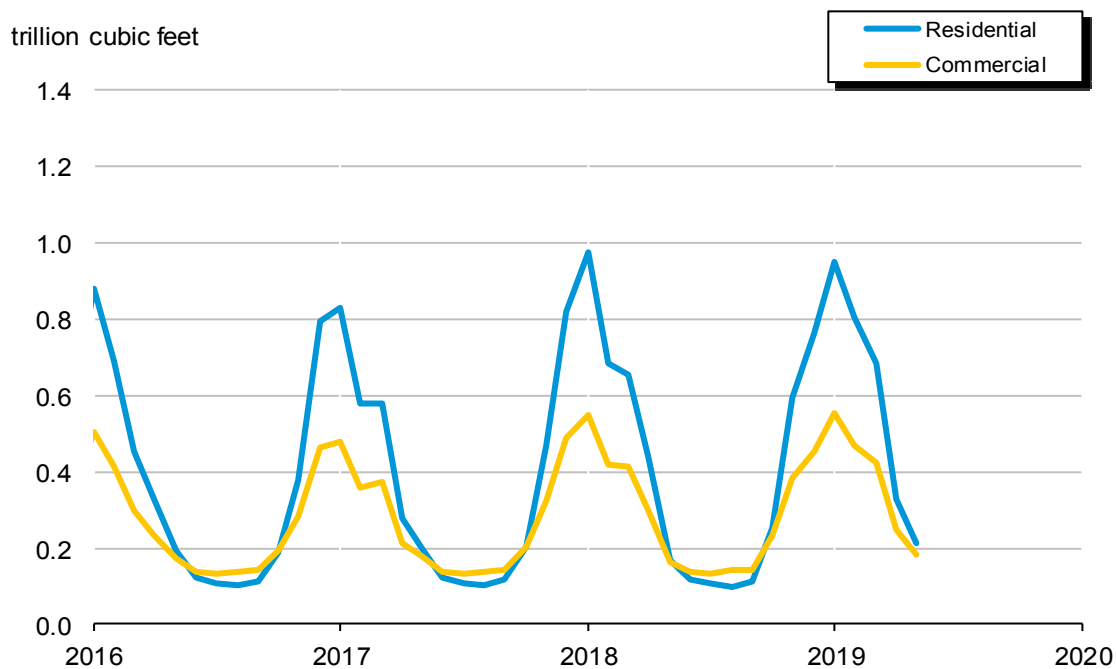
^{RE} Revised estimated data.

Notes: Data for 2014 through 2016 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Note 6, for definition of sectors.

Sources: 2014-2017: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; state and federal agencies; EIA estimates based on historical data; and *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; Form EIA-857; Form EIA-923, "Power Plant Operations Report." See Appendix A, Explanatory Note 6, for computation procedures and revision policy.

Figure 2

Figure 2. Natural gas deliveries to consumers in the United States, 2016-2019



Sources: 2015-2017: Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-923, "Power Plant Operations Report"; EIA computations; and Natural Gas Annual 2017. January 2018 through current month: Form EIA-857 and Form EIA-923.

Table 3. Selected national average natural gas prices, 2014-2019

(dollars per thousand cubic feet, except where noted)

Year and Month	NGPL Composite Spot Price ^a	Natural Gas Spot Price ^b	Citygate Price	Delivered to Consumers						
				Residential		Commercial		Industrial		Electric Power Price ^d
				Price	% of Total ^c	Price	% of Total ^c	Price	% of Total ^c	
2014 Annual Average	9.56	4.37	5.71	10.97	95.5	8.90	65.8	5.62	15.9	5.19
2015 Annual Average	4.97	2.62	4.26	10.38	95.6	7.91	65.7	3.93	14.8	3.38
2016 Annual Average	5.04	2.52	3.71	10.05	95.8	7.28	64.8	3.51	14.9	2.99
2017										
January	6.78	3.30	4.21	9.32	95.9	7.58	70.5	4.87	15.0	4.33
February	7.24	2.85	4.13	10.01	95.8	7.89	69.0	4.56	14.9	3.74
March	5.91	2.88	3.84	9.86	95.7	7.68	67.7	3.94	14.9	3.52
April	6.25	3.10	4.20	11.34	95.2	8.04	65.0	4.13	14.5	3.50
May	6.14	3.15	4.42	13.26	95.5	8.31	60.8	4.03	13.9	3.61
June	5.73	2.97	4.82	16.06	94.4	8.75	58.2	4.06	14.5	3.41
July	6.27	2.98	4.73	17.86	95.8	8.81	57.2	3.93	14.6	3.32
August	7.01	2.90	4.61	18.22	95.6	8.76	55.9	3.79	14.2	3.27
September	7.80	2.98	4.52	16.92	96.1	8.52	56.2	3.84	13.7	3.31
October	7.84	2.88	4.03	13.36	96.4	7.97	61.5	3.79	14.2	3.27
November	8.03	3.01	3.97	10.15	96.0	7.51	65.8	3.85	14.5	3.50
December	7.82	2.82	4.00	9.29	96.5	7.42	69.1	4.21	15.0	3.81
Annual Average	6.92	2.99	4.16	10.91	95.9	7.88	65.4	4.10	14.5	3.52
2018										
January	7.91	3.87	4.29	8.91	96.1	7.43	71.2	4.48	14.9	5.35
February	7.43	2.67	3.99	9.64	96.0	7.82	69.1	4.86	14.6	3.74
March	7.17	2.69	3.71	9.78	95.9	7.74	68.4	4.02	15.0	3.32
April	7.49	2.80	3.64	10.04	95.6	7.66	65.3	3.90	14.7	3.25
May	8.40	2.80	4.13	13.64	94.8	8.46	59.7	3.81	13.8	3.15
June	8.57	2.97	4.46	16.51	95.7	8.65	57.4	3.78	13.7	3.21
July	8.99	2.83	4.71	17.92	95.8	8.93	56.0	3.76	13.7	3.41
August	9.18	2.96	4.84	18.63	95.6	8.74	54.8	3.67	13.9	3.39
September	10.46	3.00	4.70	17.31	96.2	8.64	56.5	3.75	13.7	3.21
October	9.11	3.28	4.07	12.26	96.5	7.71	61.0	4.04	13.7	3.50
November	6.97	4.09	4.29	9.43	96.4	7.35	66.5	4.51	14.2	4.32
December	6.38	4.04	4.75	9.63	96.2	7.77	68.8	5.46	14.3	4.89
Annual Average	8.20	3.16	4.21	10.52	96.0	7.83	65.6	4.20	14.2	3.67
2019										
January	6.46	3.11	R4.02	9.43	96.3	7.75	70.2	5.04	13.6	4.16
February	6.60	2.69	R3.84	9.47	96.1	7.61	69.4	4.65	14.0	3.79
March	6.58	2.95	R4.01	9.48	96.0	7.47	69.1	4.33	13.6	3.59
April	6.09	2.65	R3.69	10.92	95.6	7.77	64.2	4.02	R12.9	2.98
May	5.61	2.64	3.66	12.86	95.7	8.12	60.8	3.65	12.4	2.86
2019 5-Month YTD	6.26	2.81	3.91	9.90	96.0	7.68	67.9	4.38	13.3	3.49
2018 5-Month YTD	7.69	2.95	3.98	9.78	95.9	7.72	67.9	4.23	14.6	3.77
2017 5-Month YTD	6.44	3.06	4.13	10.19	95.7	7.81	67.6	4.32	14.7	3.74

^a The natural gas plant liquid (NGPL) composite spot price, shown in dollars per million Btu (\$/MMBtu), is derived from daily Bloomberg spot price data for natural gas plant liquids at Mont Belvieu, Texas, weighted by gas processing plant production volumes of each product as reported on Form EIA-816, "Monthly Natural Gas Liquids Report." See Appendix A, Explanatory Note 9, for full discussion.

^b The natural gas spot price, shown in \$/MMBtu, represents the average of the daily closing spot prices for natural gas at the Henry Hub in Louisiana, taken from Refinitiv. See Appendix A, Explanatory Note 9, for full discussion.

^c Percentage of total deliveries represented by onsystem sales (see Figure 6). See Table 24 for state data.

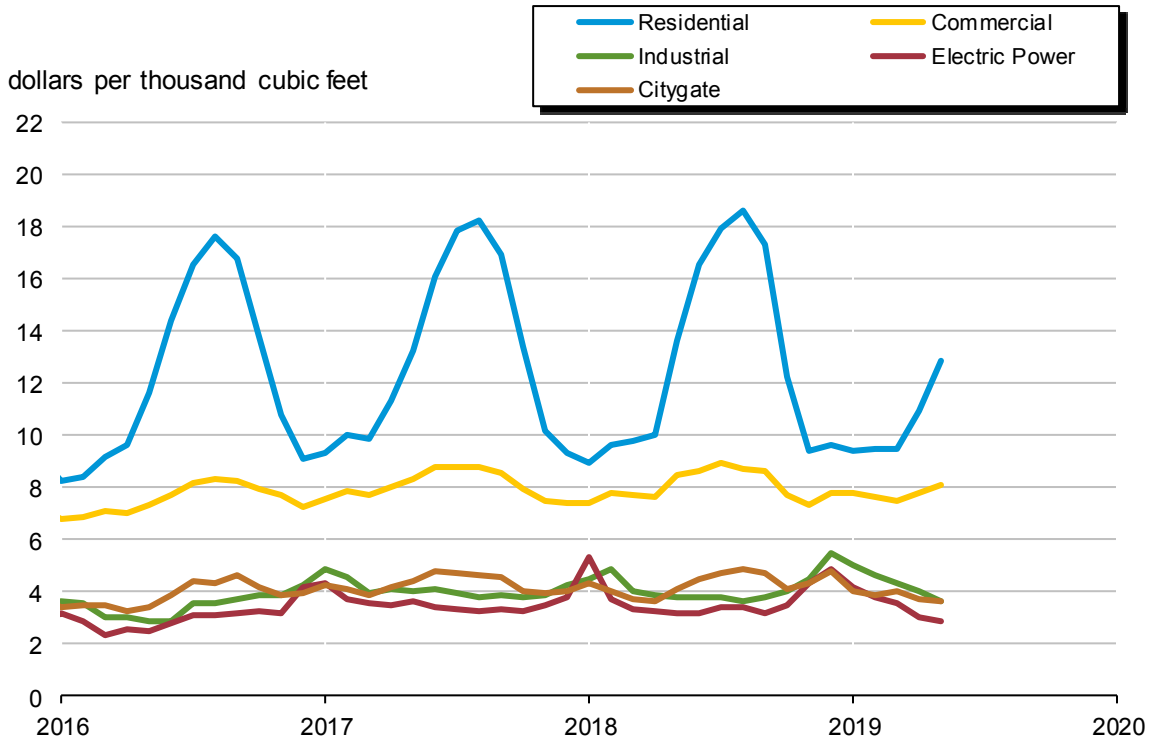
^d The electric power sector comprises electricity-only and combined-heat-and-power plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Data include nonregulated members of the electric power sector.

^R Revised data.

Notes: Prices are in nominal dollars. Data for 2014 through 2016 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Published residential, commercial, and industrial prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges.

Sources: 2014-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Refinitiv; and EIA estimates.

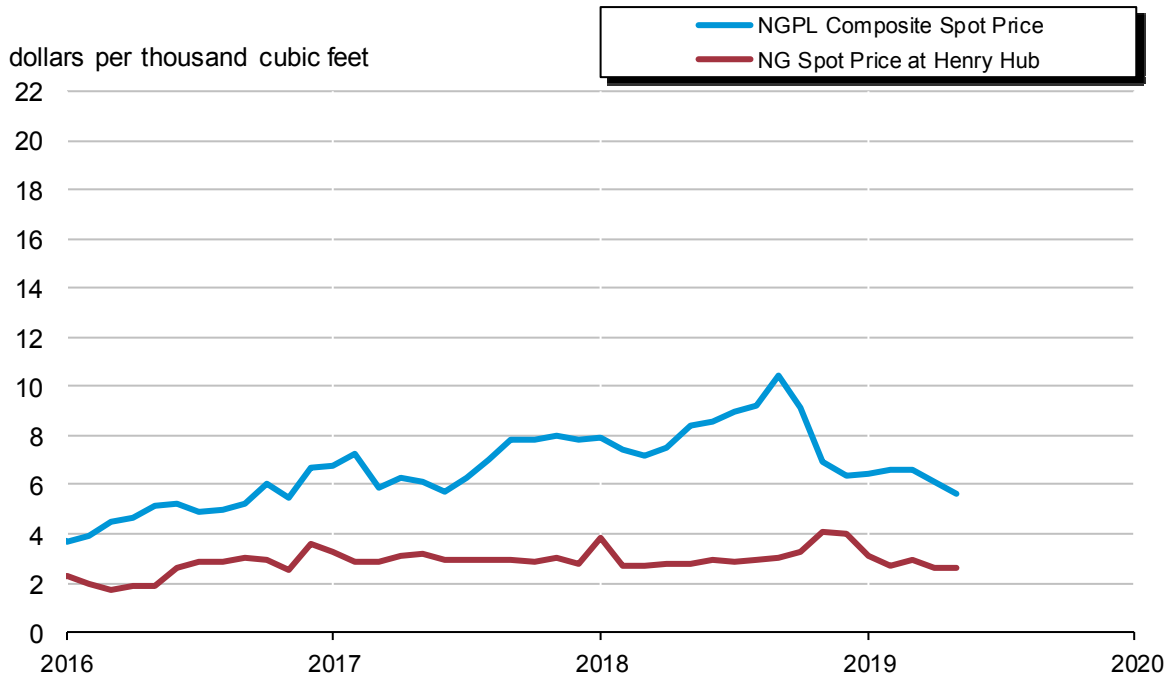
Figure 3. Average citygate and consumer prices of natural gas in the United States, 2016-2019



Note: Prices are in nominal dollars.

Sources: 2015-2017: Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Refinitiv; and EIA estimates.

Figure 4. Spot prices of natural gas and natural gas plant liquids in the United States, 2016-2019



Note: Prices are in nominal dollars.

Sources: 2015-2017: Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Refinitiv; and EIA estimates.

Table 4. U.S. natural gas imports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet)

	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Imports							
Volume (million cubic feet)							
Pipeline							
Canada ^a	1,162,386	1,240,358	1,271,928	207,535	R203,620	249,285	225,650
Mexico	443	1,313	396	78	65	133	100
Total Pipeline Imports	1,162,829	1,241,671	1,272,324	207,613	R203,685	249,418	225,750
LNG							
By Truck							
Canada	217	505	440	9	31	44	56
By Vessel							
France	2,608	2,768	0	0	0	0	0
Nigeria	0	0	2,753	0	0	0	0
Norway	0	0	0	0	0	0	0
Trinidad/Tobago	25,486	29,275	33,781	0	2,811	3,456	7,472
United Kingdom	0	3,119	0	0	0	0	0
Total LNG Imports	28,311	35,667	36,975	9	2,842	3,499	7,528
CNG							
Canada	189	165	153	29	32	47	39
Total CNG Imports	189	165	153	29	32	47	39
Total Imports	1,191,329	1,277,503	1,309,452	207,651	R206,559	252,964	233,317
Average Price (dollars per thousand cubic feet)							
Pipeline							
Canada	2.99	2.54	2.80	1.81	1.97	3.63	3.60
Mexico	3.63	3.69	2.75	1.89	2.40	4.06	5.29
Total Pipeline Imports	2.99	2.54	2.80	1.81	1.97	3.63	3.60
LNG							
By Truck							
Canada	7.11	8.19	8.66	7.66	7.20	7.07	7.06
By Vessel							
France	10.39	8.35	--	--	--	--	--
Nigeria	--	--	5.82	--	--	--	--
Norway	--	--	--	--	--	--	--
Trinidad/Tobago	8.70	5.77	4.98	--	7.33	7.71	8.98
United Kingdom	--	13.26	--	--	--	--	--
Total LNG Imports	8.84	6.66	5.08	7.66	7.32	7.70	8.96
CNG							
Canada	4.41	5.36	4.55	0.94	1.57	3.48	6.48
Total CNG Imports	4.41	5.36	4.55	0.94	1.57	3.48	6.48
Total Imports	3.34	2.84	3.00	1.81	2.14	3.79	4.06
Net Imports - Volume	-580,905	-140,907	9,680	-159,577	R-130,667	R-120,130	R-96,597

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2019						2018
	January	Total	December	November	October	September	August
Imports							
Volume (million cubic feet)							
Pipeline							
Canada ^a	276,296	2,808,720	242,282	209,573	208,954	210,828	231,007
Mexico	67	3,316	66	79	69	68	522
Total Pipeline Imports	276,363	2,812,036	242,347	209,652	209,023	210,896	231,529
LNG							
By Truck							
Canada	78	1,885	53	70	379	194	242
By Vessel							
France	2,608	2,768	0	0	0	0	0
Nigeria	0	2,860	2,860	0	0	0	0
Norway	0	0	0	0	0	0	0
Trinidad/Tobago	11,748	65,819	11,859	2,734	5,696	2,961	5,231
United Kingdom	0	3,119	0	0	0	0	0
Total LNG Imports	14,434	76,451	14,771	2,805	6,075	3,154	5,473
CNG							
Canada	42	359	30	30	30	24	23
Total CNG Imports	42	359	30	30	30	24	23
Total Imports	290,839	2,888,847	257,148	212,486	215,128	214,074	237,025
Average Price (dollars per thousand cubic feet)							
Pipeline							
Canada	3.55	2.58	4.14	3.87	2.34	1.97	2.09
Mexico	3.55	4.34	4.87	2.98	2.43	3.13	5.49
Total Pipeline Imports	3.55	2.58	4.14	3.87	2.34	1.97	2.10
LNG							
By Truck							
Canada	7.08	8.51	7.20	8.44	9.64	8.36	8.32
By Vessel							
France	10.39	8.35	--	--	--	--	--
Nigeria	--	8.84	8.84	--	--	--	--
Norway	--	--	--	--	--	--	--
Trinidad/Tobago	9.14	6.01	8.60	10.76	5.66	4.80	3.50
United Kingdom	--	13.26	--	--	--	--	--
Total LNG Imports	9.35	6.56	8.64	10.70	5.90	5.02	3.72
CNG							
Canada	8.08	3.89	8.23	2.22	2.00	1.48	1.42
Total CNG Imports	8.08	3.89	8.23	2.22	2.00	1.48	1.42
Total Imports	4.30	2.68	4.89	4.10	2.61	2.09	2.22
Net Imports - Volume	-73,934	-718,571	-106,310	-125,229	-91,518	-87,672	-74,424

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

							2018
	July	June	May	April	March	February	January
Imports							
Volume (million cubic feet)							
Pipeline							
Canada ^a	240,422	225,297	224,298	239,027	264,129	229,812	283,093
Mexico	960	240	190	68	119	805	130
Total Pipeline Imports	241,382	225,537	224,488	239,095	264,248	230,617	283,223
LNG							
By Truck							
Canada	226	216	224	196	54	21	10
By Vessel							
France	0	0	0	0	2,768	0	0
Nigeria	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0
Trinidad/Tobago	5,376	2,688	2,429	2,934	3,650	6,750	13,511
United Kingdom	0	0	0	0	0	0	3,119
Total LNG Imports	5,602	2,904	2,653	3,131	6,473	6,771	16,640
CNG							
Canada	28	28	27	39	42	29	28
Total CNG Imports	28	28	27	39	42	29	28
Total Imports	247,012	228,469	227,168	242,264	270,762	237,417	299,891
Average Price (dollars per thousand cubic feet)							
Pipeline							
Canada	2.02	1.77	1.64	2.11	2.16	2.75	3.79
Mexico	5.32	2.63	2.22	2.10	2.65	4.38	3.38
Total Pipeline Imports	2.03	1.77	1.64	2.11	2.16	2.76	3.79
LNG							
By Truck							
Canada	8.32	8.18	8.27	8.30	7.94	7.17	7.94
By Vessel							
France	--	--	--	--	8.35	--	--
Nigeria	--	--	--	--	--	--	--
Norway	--	--	--	--	--	--	--
Trinidad/Tobago	3.53	4.33	4.27	4.33	6.08	5.95	6.18
United Kingdom	--	--	--	--	--	--	13.26
Total LNG Imports	3.72	4.62	4.61	4.57	7.07	5.95	7.51
CNG							
Canada	1.31	1.01	1.19	2.69	2.14	12.03	10.87
Total CNG Imports	1.31	1.01	1.19	2.69	2.14	12.03	10.87
Total Imports	2.16	1.87	1.73	2.20	2.45	3.02	4.41
Net Imports - Volume	-58,986	-33,526	-44,947	-36,677	-20,705	-38,235	-342

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

							2017
	Total	December	November	October	September	August	July
Imports							
Volume (million cubic feet)							
Pipeline							
Canada ^a	2,962,689	266,192	237,197	241,425	226,738	239,935	245,212
Mexico	1,346	504	76	81	68	63	80
Total Pipeline Imports	2,964,035	266,696	237,273	241,506	226,806	239,997	245,292
LNG							
By Truck							
Canada	1,569	8	165	120	183	226	215
By Vessel							
France	0	0	0	0	0	0	0
Nigeria	5,992	3,239	0	0	0	0	0
Norway	0	0	0	0	0	0	0
Trinidad/Tobago	70,450	7,617	6,213	2,337	2,467	7,636	4,974
United Kingdom	0	0	0	0	0	0	0
Total LNG Imports	78,011	10,864	6,378	2,457	2,650	7,862	5,189
CNG							
Canada	345	31	30	22	25	28	27
Total CNG Imports	345	31	30	22	25	28	27
Total Imports	3,042,391	277,590	243,681	243,985	229,482	247,888	250,508
Average Price (dollars per thousand cubic feet)							
Pipeline							
Canada	2.55	2.94	2.40	1.98	2.05	2.24	2.31
Mexico	2.93	3.42	2.44	2.43	2.64	2.31	2.62
Total Pipeline Imports	2.55	2.94	2.40	1.98	2.05	2.24	2.31
LNG							
By Truck							
Canada	8.63	8.19	8.12	8.33	8.66	8.69	8.78
By Vessel							
France	--	--	--	--	--	--	--
Nigeria	6.52	7.11	--	--	--	--	--
Norway	--	--	--	--	--	--	--
Trinidad/Tobago	4.32	4.88	3.47	4.20	3.74	3.19	3.21
United Kingdom	--	--	--	--	--	--	--
Total LNG Imports	4.58	5.55	3.59	4.41	4.08	3.34	3.44
CNG							
Canada	2.95	4.31	1.17	1.06	0.82	0.97	1.19
Total CNG Imports	2.95	4.31	1.17	1.06	0.82	0.97	1.19
Total Imports	2.60	3.26	2.52	2.05	2.12	2.38	2.40
Net Imports - Volume	-125,466	-21,834	-44,673	-37,374	-20,798	969	2,080

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2017					
	June	May	April	March	February	January
Imports						
Volume (million cubic feet)						
Pipeline						
Canada ^a	234,061	238,753	232,998	275,573	246,020	278,584
Mexico	78	78	79	83	74	83
Total Pipeline Imports	234,140	238,831	233,077	275,656	246,094	278,666
LNG						
By Truck						
Canada	212	220	186	8	8	18
By Vessel						
France	0	0	0	0	0	0
Nigeria	0	0	0	0	0	2,753
Norway	0	0	0	0	0	0
Trinidad/Tobago	5,425	5,275	4,985	4,870	8,468	10,183
United Kingdom	0	0	0	0	0	0
Total LNG Imports	5,637	5,494	5,171	4,878	8,477	12,955
CNG						
Canada	29	28	31	34	26	35
Total CNG Imports	29	28	31	34	26	35
Total Imports	239,805	244,353	238,279	280,567	254,597	291,656
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	2.51	2.59	2.53	2.57	2.81	3.41
Mexico	2.77	2.62	2.64	2.27	2.94	3.29
Total Pipeline Imports	2.51	2.59	2.53	2.57	2.81	3.41
LNG						
By Truck						
Canada	8.91	8.88	8.49	7.05	7.22	9.12
By Vessel						
France	--	--	--	--	--	--
Nigeria	--	--	--	--	--	5.82
Norway	--	--	--	--	--	--
Trinidad/Tobago	3.37	3.65	3.56	4.34	6.39	5.48
United Kingdom	--	--	--	--	--	--
Total LNG Imports	3.58	3.86	3.74	4.35	6.39	5.56
CNG						
Canada	1.64	1.86	1.76	1.91	6.07	10.64
Total CNG Imports	1.64	1.86	1.76	1.91	6.07	10.64
Total Imports	2.62	2.70	2.64	2.68	3.14	3.75
Net Imports - Volume	-13,517	-9,511	-8,973	8,724	-349	19,789

^a EIA has reduced the reported volume of gas imported by pipeline from Canada by the amount of natural gas liquids removed from the saturated natural gas carried by Alliance Pipeline. Alliance moves saturated natural gas from the border to a processing plant in Illinois. After the adjustment, volumes of imported natural gas on this pipeline are on the same physical basis as other reported volumes of pipeline imports.

^b For the "Other" area the point of origin for volumes of imported LNG was unassigned in the reports to the Office of Fossil Energy.

^c Revised data.

^d Not applicable.

Note: In the case of missing import or export reports on Form FE-746R, "Import and Export of Natural Gas," EIA estimates the missing volumes using pipeline flows or other available information. Prices are in nominal dollars. LNG prices are a volume-weighted average of the prices reported by cargo. See the "LNG Monthly" (<https://energy.gov/fe/listings/lng-reports>) from the Office of Fossil Energy, U.S. Department of Energy, for more information on what is included in the individual LNG prices.

Source: Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Imports and Exports."

Table 5. U.S. natural gas exports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet)

	2019 5-Month YTD	2018 5-Month YTD	2017 5-Month YTD	2019			
				May	April	March	February
Exports							
Volume (million cubic feet)							
Pipeline							
Canada	412,662	337,443	430,578	70,176	70,923	92,734	91,561
Mexico	726,810	662,700	610,696	152,117	¥139,173	¥149,518	¥135,473
Total Pipeline Exports	1,139,472	1,000,144	1,041,274	222,293	¥210,096	¥242,251	¥227,034
LNG							
Exports							
By Vessel							
Argentina	13,107	13,941	13,327	8,737	4,369	0	0
Bahamas	64	52	0	14	14	11	14
Barbados	83	73	88	21	17	14	14
Belgium	3,390	0	0	0	0	3,390	0
Brazil	12,623	7,680	3,676	4,905	1,201	3,283	3,234
Chile	28,555	18,168	11,796	6,188	9,429	10,005	2,933
China	14,019	58,998	17,243	0	3,700	0	3,464
Colombia	5,869	1,599	0	0	0	2,935	0
Dominican Republic	2,942	2,843	2,934	0	0	0	2,942
Egypt	0	6,554	0	0	0	0	0
France	51,870	0	0	6,621	17,092	20,853	0
Greece	6,891	0	0	3,497	0	0	3,394
Haiti	2	0	0	0	2	0	0
India	42,149	24,802	7,022	13,942	6,742	7,446	6,989
Israel	0	3,270	0	0	0	0	0
Italy	27,200	0	0	6,560	0	6,684	3,454
Jamaica	5,211	0	0	2,890	0	2,320	0
Japan	48,949	34,463	25,303	7,149	10,311	7,143	10,320
Jordan	14,649	20,859	18,420	7,332	3,622	0	3,695
Kuwait	3,502	6,496	16,803	3,502	0	0	0
Lithuania	0	0	0	0	0	0	0
Malta	413	0	867	0	413	0	0
Mexico	58,678	78,671	62,898	20,244	10,406	7,038	6,681
Netherlands	37,585	3,253	3,042	10,734	13,010	10,452	3,390
Pakistan	6,647	12,956	3,166	0	0	3,282	3,365
Panama	6,461	3,518	0	0	0	3,191	3,269
Poland	16,877	0	3,440	0	3,414	3,701	0
Portugal	17,498	3,247	8,759	0	3,489	0	3,720
Singapore	17,597	0	0	3,397	320	6,631	7,249
South Korea	83,813	96,418	17,154	18,069	13,000	18,013	17,750
Spain	48,520	0	11,768	14,325	10,139	10,678	6,748
Taiwan	9,658	6,806	2,949	3,309	6,349	0	0
Thailand	3,401	0	3,113	3,401	0	0	0
Turkey	19,281	6,992	10,923	0	2,969	0	6,483
United Arab Emirates	6,787	0	13,408	0	6,787	0	0
United Kingdom	17,753	6,267	0	0	0	3,669	3,711
By Truck							
Canada	1	16	3	0	0	0	1
Mexico	386	227	286	75	87	73	48
Re-Exports							
By Vessel							
Argentina	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0
Japan	221	0	0	0	221	0	0
Mexico	0	0	0	0	0	0	0
Total LNG Exports	632,652	418,171	258,388	144,913	127,102	130,814	102,866
CNG							
Canada	110	95	110	22	28	29	15
Total CNG Exports	110	95	110	22	28	29	15
Total Exports	1,772,234	1,418,410	1,299,772	367,227	¥337,226	¥373,095	¥329,914

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2019						2018
	January	Total	December	November	October	September	August
Exports							
Volume (million cubic feet)							
Pipeline							
Canada	87,269	835,982	100,101	89,784	64,726	70,393	65,677
Mexico	150,529	1,688,095	140,540	140,323	152,025	149,966	154,231
Total Pipeline Exports	237,799	2,524,077	240,641	230,107	216,751	220,359	219,909
LNG							
Exports							
By Vessel							
Argentina	0	27,560	0	0	0	0	10,679
Bahamas	11	137	14	13	12	12	10
Barbados	17	174	20	20	14	14	13
Belgium	0	0	0	0	0	0	0
Brazil	0	35,645	0	0	0	0	15,425
Chile	0	41,186	3,276	3,676	0	3,675	0
China	6,856	90,473	3,598	3,451	7,269	0	3,588
Colombia	2,934	5,101	0	0	0	0	867
Dominican Republic	0	5,835	0	0	0	0	2,992
Egypt	0	6,554	0	0	0	0	0
France	7,303	18,291	3,453	9,991	4,846	0	0
Greece	0	3,722	3,722	0	0	0	0
Haiti	0	0	0	0	0	0	0
India	7,030	57,634	7,156	0	7,131	5,910	0
Israel	0	3,270	0	0	0	0	0
Italy	10,502	17,390	6,137	0	4,785	6,468	0
Jamaica	0	1,303	0	1,303	0	0	0
Japan	14,027	125,534	13,977	23,835	3,017	16,698	10,286
Jordan	0	38,794	0	7,390	3,666	0	3,677
Kuwait	0	9,981	0	0	0	0	3,485
Lithuania	0	0	0	0	0	0	0
Malta	0	2,927	0	0	0	0	0
Mexico	14,310	182,246	10,610	6,794	7,076	10,559	20,708
Netherlands	0	12,188	0	2,949	3,071	2,915	0
Pakistan	0	12,956	0	0	0	0	0
Panama	0	6,786	3,268	0	0	0	0
Poland	9,762	3,231	0	3,231	0	0	0
Portugal	10,289	12,512	3,298	0	0	3,670	2,296
Singapore	0	3,679	3,679	0	0	0	0
South Korea	16,981	252,223	33,567	17,635	34,923	24,179	17,467
Spain	6,631	10,310	0	3,529	3,551	0	0
Taiwan	0	16,731	3,423	0	0	0	0
Thailand	0	0	0	0	0	0	0
Turkey	9,829	23,205	9,976	2,956	3,281	0	0
United Arab Emirates	0	3,638	0	0	0	3,638	0
United Kingdom	10,373	51,297	13,499	20,695	7,213	3,624	0
By Truck							
Canada	0	19	1	0	0	2	0
Mexico	104	587	121	115	31	17	33
Re-Exports							
By Vessel							
Argentina	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0
Japan	0	0	0	0	0	0	0
Mexico	0	0	0	0	0	0	0
Total LNG Exports	126,957	1,083,118	122,795	107,585	89,886	81,381	91,526
CNG							
Canada	16	223	22	24	9	6	15
Total CNG Exports	16	223	22	24	9	6	15
Total Exports	364,772	3,607,418	363,458	337,716	306,646	301,746	311,449

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

							2018
	July	June	May	April	March	February	January
Exports							
Volume (million cubic feet)							
Pipeline							
Canada	56,880	50,976	39,689	62,641	67,652	76,340	91,120
Mexico	150,856	137,454	137,600	130,586	132,249	125,628	136,638
Total Pipeline Exports	207,736	188,431	177,289	193,227	199,901	201,968	227,758
LNG							
Exports							
By Vessel							
Argentina	2,939	0	5,392	5,217	3,333	0	0
Bahamas	11	14	11	8	16	12	4
Barbados	10	10	13	8	13	20	20
Belgium	0	0	0	0	0	0	0
Brazil	12,540	0	1,153	3,255	3,272	0	0
Chile	6,525	5,865	0	4,987	6,994	3,249	2,938
China	10,644	2,926	10,416	17,509	10,739	6,750	13,584
Colombia	1,521	1,113	0	1,599	0	0	0
Dominican Republic	0	0	1,023	0	1,821	0	0
Egypt	0	0	0	0	0	0	6,554
France	0	0	0	0	0	0	0
Greece	0	0	0	0	0	0	0
Haiti	0	0	0	0	0	0	0
India	5,918	6,717	7,118	3,254	10,834	0	3,596
Israel	0	0	3,270	0	0	0	0
Italy	0	0	0	0	0	0	0
Jamaica	0	0	0	0	0	0	0
Japan	13,438	9,820	12,782	10,967	0	7,099	3,615
Jordan	0	3,201	10,572	3,293	3,694	3,300	0
Kuwait	0	0	6,496	0	0	0	0
Lithuania	0	0	0	0	0	0	0
Malta	2,927	0	0	0	0	0	0
Mexico	21,237	26,591	13,512	11,074	28,877	14,777	10,431
Netherlands	0	0	0	3,253	0	0	0
Pakistan	0	0	3,222	3,258	3,108	0	3,368
Panama	0	0	2,077	0	1,442	0	0
Poland	0	0	0	0	0	0	0
Portugal	0	0	0	0	0	0	3,247
Singapore	0	0	0	0	0	0	0
South Korea	14,040	13,994	17,735	17,996	11,079	28,322	21,286
Spain	3,230	0	0	0	0	0	0
Taiwan	3,234	3,268	0	0	0	6,806	0
Thailand	0	0	0	0	0	0	0
Turkey	0	0	0	0	0	3,279	3,714
United Arab Emirates	0	0	0	0	0	0	0
United Kingdom	0	0	0	0	6,267	0	0
By Truck							
Canada	0	0	0	1	0	15	0
Mexico	26	17	6	4	56	56	105
Re-Exports							
By Vessel							
Argentina	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0
Japan	0	0	0	0	0	0	0
Mexico	0	0	0	0	0	0	0
Total LNG Exports	98,240	73,535	94,797	85,684	91,542	73,684	72,463
CNG							
Canada	22	29	30	29	24	0	13
Total CNG Exports	22	29	30	29	24	0	13
Total Exports	305,997	261,995	272,116	278,941	291,468	275,652	300,234

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

							2017
	Total	December	November	October	September	August	July
Exports							
Volume (million cubic feet)							
Pipeline							
Canada	917,087	81,050	74,427	68,382	69,823	66,342	59,760
Mexico	1,543,056	135,756	133,807	132,778	125,724	135,108	135,068
Total Pipeline Exports	2,460,144	216,807	208,234	201,160	195,548	201,450	194,828
LNG							
Exports							
By Vessel							
Argentina	16,276	0	0	0	0	0	0
Bahamas	2	2	0	0	0	0	0
Barbados	200	19	20	17	14	16	10
Belgium	0	0	0	0	0	0	0
Brazil	17,648	0	0	6,967	3,364	0	3,642
Chile	25,746	3,362	0	3,675	0	0	3,256
China	103,410	23,433	20,871	24,588	10,056	0	7,218
Colombia	0	0	0	0	0	0	0
Dominican Republic	8,691	0	2,835	0	2,922	0	0
Egypt	6,781	0	0	0	0	3,317	3,464
France	0	0	0	0	0	0	0
Greece	0	0	0	0	0	0	0
Haiti	0	0	0	0	0	0	0
India	20,919	3,427	7,057	0	0	0	0
Israel	0	0	0	0	0	0	0
Italy	6,493	0	0	0	0	3,372	0
Jamaica	0	0	0	0	0	0	0
Japan	53,218	13,893	0	6,725	0	3,614	0
Jordan	36,321	7,135	0	3,373	0	7,393	0
Kuwait	20,213	0	0	0	0	0	3,410
Lithuania	6,844	0	0	0	3,414	3,431	0
Malta	867	0	0	0	0	0	0
Mexico	140,321	3,635	10,760	6,686	10,286	6,860	14,432
Netherlands	3,042	0	0	0	0	0	0
Pakistan	3,166	0	0	0	0	0	0
Panama	0	0	0	0	0	0	0
Poland	3,440	0	0	0	0	0	0
Portugal	19,523	0	3,702	0	0	3,399	3,662
Singapore	0	0	0	0	0	0	0
South Korea	130,185	20,810	21,141	21,577	17,514	10,320	14,238
Spain	29,329	3,370	3,617	2,980	3,666	3,712	217
Taiwan	9,004	0	2,934	3,121	0	0	0
Thailand	3,113	0	0	0	0	0	0
Turkey	24,855	3,413	7,076	0	3,443	0	0
United Arab Emirates	13,408	0	0	0	0	0	0
United Kingdom	3,410	0	0	0	0	0	0
By Truck							
Canada	5	0	2	0	0	0	0
Mexico	691	105	86	65	53	33	44
Re-Exports							
By Vessel							
Argentina	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0
Japan	0	0	0	0	0	0	0
Mexico	422	0	0	422	0	0	0
Total LNG Exports	707,542	82,604	80,100	80,195	54,733	45,468	53,592
CNG							
Canada	171	13	20	4	0	1	8
Total CNG Exports	171	13	20	4	0	1	8
Total Exports	3,167,857	299,424	288,354	281,359	250,280	246,919	248,428

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2017					
	June	May	April	March	February	January
Exports						
Volume (million cubic feet)						
Pipeline						
Canada	66,725	63,949	80,532	99,489	87,798	98,811
Mexico	134,118	129,110	116,027	128,774	115,089	121,696
Total Pipeline Exports	200,844	193,058	196,559	228,263	202,887	220,508
LNG						
Exports						
By Vessel						
Argentina	2,949	3,192	10,135	0	0	0
Bahamas	0	0	0	0	0	0
Barbados	16	15	15	20	15	22
Belgium	0	0	0	0	0	0
Brazil	0	3,676	0	0	0	0
Chile	3,657	0	5,894	2,951	2,950	0
China	0	3,514	0	0	10,338	3,391
Colombia	0	0	0	0	0	0
Dominican Republic	0	0	0	2,934	0	0
Egypt	0	0	0	0	0	0
France	0	0	0	0	0	0
Greece	0	0	0	0	0	0
Haiti	0	0	0	0	0	0
India	3,413	0	0	0	3,399	3,623
Israel	0	0	0	0	0	0
Italy	3,120	0	0	0	0	0
Jamaica	0	0	0	0	0	0
Japan	3,683	3,667	7,398	0	3,705	10,533
Jordan	0	3,453	0	6,655	2,945	5,368
Kuwait	0	3,281	6,784	3,360	3,378	0
Lithuania	0	0	0	0	0	0
Malta	0	0	0	0	0	867
Mexico	24,763	10,023	13,730	10,728	14,407	14,010
Netherlands	0	3,042	0	0	0	0
Pakistan	0	0	0	3,166	0	0
Panama	0	0	0	0	0	0
Poland	0	3,440	0	0	0	0
Portugal	0	3,625	0	0	1,692	3,442
Singapore	0	0	0	0	0	0
South Korea	7,431	6,818	3,295	7,042	0	0
Spain	0	0	0	0	1,766	10,002
Taiwan	0	2,949	0	0	0	0
Thailand	0	0	0	3,113	0	0
Turkey	0	0	0	3,521	7,402	0
United Arab Emirates	0	10,062	3,347	0	0	0
United Kingdom	3,410	0	0	0	0	0
By Truck						
Canada	0	0	0	3	0	0
Mexico	19	26	70	61	44	85
Re-Exports						
By Vessel						
Argentina	0	0	0	0	0	0
Brazil	0	0	0	0	0	0
India	0	0	0	0	0	0
Japan	0	0	0	0	0	0
Mexico	0	0	0	0	0	0
Total LNG Exports	52,462	60,782	50,669	43,553	52,042	51,342
CNG						
Canada	16	23	24	27	18	19
Total CNG Exports	16	23	24	27	18	19
Total Exports	253,322	253,864	247,251	271,843	254,946	271,868

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2019 5-Month YTD	2018 5-Month YTD	2017 5-Month YTD	2019			
				May	April	March	February
Exports							
Average Price (dollars per thousand cubic feet)							
Pipeline							
Canada	3.25	3.22	3.30	2.55	2.70	3.48	3.38
Mexico	2.95	3.23	3.26	3.12	2.37	2.77	3.03
Total Pipeline Exports	3.06	3.23	3.27	2.94	2.48	3.04	3.17
LNG							
Exports							
By Vessel							
Argentina	5.18	5.36	4.81	5.02	5.51	--	--
Bahamas	10.39	10.39	--	10.39	10.39	10.39	10.39
Barbados	10.39	10.39	10.40	10.39	10.39	10.39	10.39
Belgium	6.72	--	--	--	--	6.72	--
Brazil	5.47	6.83	4.63	5.79	6.62	3.41	6.64
Chile	3.70	3.83	6.69	3.07	4.21	3.41	4.35
China	5.23	4.41	4.81	--	3.76	--	4.97
Colombia	3.88	3.21	--	--	--	3.41	--
Dominican Republic	3.52	4.46	5.59	--	--	--	3.52
Egypt	--	3.27	--	--	--	--	--
France	4.86	--	--	6.23	4.26	5.24	--
Greece	5.38	--	--	3.97	--	--	6.84
Haiti	10.39	--	--	--	10.39	--	--
India	4.58	4.55	4.39	4.11	3.48	3.67	5.53
Israel	--	6.48	--	--	--	--	--
Italy	5.26	--	--	4.40	--	5.20	4.72
Jamaica	4.61	--	--	3.07	--	6.52	--
Japan	7.85	6.09	6.84	7.94	7.39	8.00	7.98
Jordan	3.22	4.00	4.82	3.07	3.24	--	3.52
Kuwait	3.94	6.76	4.36	3.94	--	--	--
Lithuania	--	--	--	--	--	--	--
Malta	3.76	--	4.70	--	3.76	--	--
Mexico	4.23	4.58	5.64	3.74	4.67	3.41	5.06
Netherlands	4.77	6.33	6.35	4.38	4.91	5.30	3.81
Pakistan	5.06	5.60	3.14	--	--	6.64	3.52
Panama	7.47	5.30	--	--	--	8.12	6.84
Poland	6.37	--	4.26	--	7.78	3.41	--
Portugal	5.33	3.27	6.88	--	3.66	--	3.97
Singapore	4.37	--	--	3.07	6.36	5.86	3.52
South Korea	3.95	4.64	4.73	3.12	4.74	3.41	4.12
Spain	5.42	--	6.41	5.19	4.80	4.88	5.05
Taiwan	4.28	5.89	4.43	4.37	4.23	--	--
Thailand	6.42	--	3.14	6.42	--	--	--
Turkey	5.53	3.77	6.16	--	3.76	--	6.64
United Arab Emirates	3.24	--	3.87	--	3.24	--	--
United Kingdom	4.96	5.89	--	--	--	5.15	3.52
By Truck							
Canada	8.93	13.40	8.39	--	--	--	8.93
Mexico	9.30	7.83	9.25	8.85	8.92	9.92	9.17
Re-Exports							
By Vessel							
Argentina	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--
Japan	4.44	--	--	--	4.44	--	--
Mexico	--	--	--	--	--	--	--
Total LNG Exports	4.96	4.79	5.38	4.39	4.70	4.84	5.06
CNG							
Canada	5.20	4.69	5.68	2.49	3.28	5.11	7.70
Total CNG Exports	5.20	4.69	5.68	2.49	3.28	5.11	7.70
Total Exports	3.74	3.69	3.69	3.51	3.32	3.67	3.76

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2019						2018
	January	Total	December	November	October	September	August
Exports							
Average Price (dollars per thousand cubic feet)							
Pipeline							
Canada	3.89	3.41	4.60	4.36	3.24	2.92	2.95
Mexico	3.42	3.30	4.24	3.64	3.29	3.00	3.21
Total Pipeline Exports	3.60	3.33	4.39	3.92	3.28	2.98	3.13
LNG							
Exports							
By Vessel							
Argentina	--	6.01	--	--	--	--	6.61
Bahamas	10.39	10.39	10.39	10.39	10.39	10.39	10.39
Barbados	10.39	10.39	10.39	10.39	10.39	10.39	10.39
Belgium	--	--	--	--	--	--	--
Brazil	--	6.05	--	--	--	--	5.79
Chile	--	4.33	5.63	3.61	--	3.46	--
China	6.16	4.41	5.63	6.92	3.61	--	3.38
Colombia	4.35	4.86	--	--	--	--	6.49
Dominican Republic	--	3.91	--	--	--	--	3.38
Egypt	--	3.27	--	--	--	--	--
France	3.94	7.03	7.47	7.02	6.72	--	--
Greece	--	7.62	7.62	--	--	--	--
Haiti	--	--	--	--	--	--	--
India	6.60	5.02	6.64	--	5.23	4.76	--
Israel	--	6.48	--	--	--	--	--
Italy	6.00	6.46	7.79	--	6.72	4.99	--
Jamaica	--	6.92	--	6.92	--	--	--
Japan	7.98	6.86	8.42	6.34	7.91	7.13	8.25
Jordan	--	4.10	--	3.80	3.61	--	3.38
Kuwait	--	6.67	--	--	--	--	6.49
Lithuania	--	--	--	--	--	--	--
Malta	--	6.70	--	--	--	--	--
Mexico	4.63	4.70	5.04	6.92	5.22	4.40	5.04
Netherlands	--	6.61	--	6.83	6.72	6.58	--
Pakistan	--	5.60	--	--	--	--	--
Panama	--	5.46	5.63	--	--	--	--
Poland	7.00	7.12	--	7.12	--	--	--
Portugal	6.39	5.45	8.79	--	--	3.46	6.94
Singapore	--	5.63	5.63	--	--	--	--
South Korea	4.63	4.56	6.75	3.80	4.52	3.86	3.38
Spain	8.11	4.59	--	3.80	3.46	--	--
Taiwan	--	6.51	7.49	--	--	--	--
Thailand	--	--	--	--	--	--	--
Turkey	5.33	5.38	6.64	6.92	3.61	--	--
United Arab Emirates	--	3.46	--	--	--	3.46	--
United Kingdom	5.40	5.77	6.87	5.65	5.13	3.46	--
By Truck							
Canada	--	12.71	10.29	--	--	8.23	--
Mexico	9.58	8.52	9.30	9.31	7.30	7.62	9.81
Re-Exports							
By Vessel							
Argentina	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--
Total LNG Exports	5.89	5.20	6.84	5.62	4.92	4.78	5.33
CNG							
Canada	10.05	4.69	11.62	4.40	3.50	2.98	2.89
Total CNG Exports	10.05	4.69	11.62	4.40	3.50	2.98	2.89
Total Exports	4.39	3.89	5.22	4.46	3.76	3.47	3.78

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2018						
	July	June	May	April	March	February	January
Exports							
Average Price (dollars per thousand cubic feet)							
Pipeline							
Canada	2.83	2.75	2.63	2.90	2.63	3.16	4.17
Mexico	3.03	3.04	3.09	3.01	3.00	3.41	3.64
Total Pipeline Exports	2.98	2.96	2.99	2.98	2.87	3.31	3.85
LNG							
Exports							
By Vessel							
Argentina	6.91	--	4.59	5.56	6.28	--	--
Bahamas	10.39	10.39	10.39	10.39	10.39	10.39	10.39
Barbados	10.39	10.39	10.39	10.39	10.39	10.39	10.39
Belgium	--	--	--	--	--	--	--
Brazil	5.90	--	6.48	6.33	7.46	--	--
Chile	6.77	3.44	--	4.76	3.15	4.34	3.27
China	3.53	6.56	4.31	3.67	4.20	5.93	4.84
Colombia	6.70	3.44	--	3.21	--	--	--
Dominican Republic	--	--	6.80	--	3.15	--	--
Egypt	--	--	--	--	--	--	3.27
France	--	--	--	--	--	--	--
Greece	--	--	--	--	--	--	--
Haiti	--	--	--	--	--	--	--
India	6.83	3.44	3.37	6.33	5.22	--	3.27
Israel	--	--	6.48	--	--	--	--
Italy	--	--	--	--	--	--	--
Jamaica	--	--	--	--	--	--	--
Japan	6.86	6.34	7.11	4.95	--	7.46	3.27
Jordan	--	6.85	3.37	6.63	3.15	4.34	--
Kuwait	--	--	6.76	--	--	--	--
Lithuania	--	--	--	--	--	--	--
Malta	6.70	--	--	--	--	--	--
Mexico	4.06	4.58	5.47	3.98	4.32	4.85	4.43
Netherlands	--	--	--	6.33	--	--	--
Pakistan	--	--	6.63	6.33	6.28	--	3.27
Panama	--	--	6.80	--	3.15	--	--
Poland	--	--	--	--	--	--	--
Portugal	--	--	--	--	--	--	3.27
Singapore	--	--	--	--	--	--	--
South Korea	3.58	3.44	3.84	3.66	3.15	5.85	5.31
Spain	6.70	--	--	--	--	--	--
Taiwan	6.70	6.56	--	--	--	5.89	--
Thailand	--	--	--	--	--	--	--
Turkey	--	--	--	--	--	4.34	3.27
United Arab Emirates	--	--	--	--	--	--	--
United Kingdom	--	--	--	--	5.89	--	--
By Truck							
Canada	--	--	--	7.79	--	13.63	19.21
Mexico	8.80	7.04	7.18	6.40	8.03	8.43	7.49
Re-Exports							
By Vessel							
Argentina	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--
Total LNG Exports	5.28	4.65	5.03	4.56	4.45	5.62	4.34
CNG							
Canada	2.88	2.63	2.75	4.29	3.48	--	12.47
Total CNG Exports	2.88	2.63	2.75	4.29	3.48	--	12.47
Total Exports	3.72	3.43	3.70	3.46	3.37	3.93	3.97

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

							2017
	Total	December	November	October	September	August	July
Exports							
Average Price (dollars per thousand cubic feet)							
Pipeline							
Canada	3.12	3.19	2.99	2.78	2.88	2.84	2.90
Mexico	3.26	3.34	3.29	3.28	3.29	3.27	3.22
Total Pipeline Exports	3.20	3.28	3.18	3.11	3.14	3.13	3.12
LNG							
Exports							
By Vessel							
Argentina	4.64	--	--	--	--	--	--
Bahamas	10.40	10.40	--	--	--	--	--
Barbados	10.40	10.40	10.40	10.40	10.40	10.40	10.40
Belgium	--	--	--	--	--	--	--
Brazil	4.15	--	--	4.14	3.55	--	4.23
Chile	5.43	3.68	--	3.56	--	--	3.67
China	4.32	4.87	4.60	3.56	3.99	--	3.67
Colombia	--	--	--	--	--	--	--
Dominican Republic	4.15	--	3.30	--	3.55	--	--
Egypt	4.93	--	--	--	--	3.55	6.26
France	--	--	--	--	--	--	--
Greece	--	--	--	--	--	--	--
Haiti	--	--	--	--	--	--	--
India	4.84	6.80	4.41	--	--	--	--
Israel	--	--	--	--	--	--	--
Italy	3.95	--	--	--	--	3.55	--
Jamaica	--	--	--	--	--	--	--
Japan	6.13	5.87	--	3.56	--	6.14	--
Jordan	4.40	3.68	--	5.45	--	3.55	--
Kuwait	4.38	--	--	--	--	--	4.51
Lithuania	3.84	--	--	--	3.55	4.13	--
Malta	4.70	--	--	--	--	--	--
Mexico	4.93	3.68	4.85	5.54	3.98	3.55	4.17
Netherlands	6.35	--	--	--	--	--	--
Pakistan	3.14	--	--	--	--	--	--
Panama	--	--	--	--	--	--	--
Poland	4.26	--	--	--	--	--	--
Portugal	5.65	--	3.29	--	--	4.38	6.26
Singapore	--	--	--	--	--	--	--
South Korea	4.18	4.20	4.60	4.15	4.05	3.59	3.67
Spain	4.94	5.73	3.29	3.56	3.55	3.55	6.26
Taiwan	4.77	--	6.41	3.56	--	--	--
Thailand	3.14	--	--	--	--	--	--
Turkey	4.84	3.68	3.98	--	3.55	--	--
United Arab Emirates	3.87	--	--	--	--	--	--
United Kingdom	3.87	--	--	--	--	--	--
By Truck							
Canada	8.05	--	7.35	--	--	--	--
Mexico	8.74	8.11	7.94	8.43	8.67	8.94	8.79
Re-Exports							
By Vessel							
Argentina	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--
Japan	--	--	--	--	--	--	--
Mexico	5.00	--	--	5.00	--	--	--
Total LNG Exports	4.69	4.74	4.47	4.02	3.88	3.88	4.26
CNG							
Canada	4.76	6.53	1.38	1.00	--	2.50	2.72
Total CNG Exports	4.76	6.53	1.38	1.00	--	2.50	2.72
Total Exports	3.54	3.68	3.54	3.37	3.30	3.27	3.37

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2017-2019

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2017					
	June	May	April	March	February	January
Exports						
Average Price (dollars per thousand cubic feet)						
Pipeline						
Canada	3.02	3.16	3.19	3.01	3.22	3.85
Mexico	3.13	3.20	3.27	2.93	3.24	3.66
Total Pipeline Exports	3.10	3.19	3.24	2.97	3.23	3.74
LNG						
Exports						
By Vessel						
Argentina	3.87	4.77	4.82	--	--	--
Bahamas	--	--	--	--	--	--
Barbados	10.40	10.40	10.40	10.40	10.40	10.40
Belgium	--	--	--	--	--	--
Brazil	--	4.63	--	--	--	--
Chile	6.46	--	6.65	6.26	7.18	--
China	--	4.62	--	--	4.92	4.70
Colombia	--	--	--	--	--	--
Dominican Republic	--	--	--	5.59	--	--
Egypt	--	--	--	--	--	--
France	--	--	--	--	--	--
Greece	--	--	--	--	--	--
Haiti	--	--	--	--	--	--
India	4.67	--	--	--	4.06	4.70
Israel	--	--	--	--	--	--
Italy	4.38	--	--	--	--	--
Jamaica	--	--	--	--	--	--
Japan	6.99	6.88	6.92	--	7.18	6.65
Jordan	--	3.76	--	4.42	4.06	6.41
Kuwait	--	4.77	4.19	3.14	5.50	--
Lithuania	--	--	--	--	--	--
Malta	--	--	--	--	--	4.70
Mexico	4.40	4.67	4.31	5.25	6.40	7.15
Netherlands	--	6.35	--	--	--	--
Pakistan	--	--	--	3.14	--	--
Panama	--	--	--	--	--	--
Poland	--	4.26	--	--	--	--
Portugal	--	6.35	--	--	7.18	7.29
Singapore	--	--	--	--	--	--
South Korea	3.87	4.88	6.39	3.81	--	--
Spain	--	--	--	--	7.18	6.28
Taiwan	--	4.43	--	--	--	--
Thailand	--	--	--	3.14	--	--
Turkey	--	--	--	4.60	6.91	--
United Arab Emirates	--	3.89	3.80	--	--	--
United Kingdom	3.87	--	--	--	--	--
By Truck						
Canada	--	--	--	8.39	--	--
Mexico	9.04	8.90	8.95	8.64	9.97	9.66
Re-Exports						
By Vessel						
Argentina	--	--	--	--	--	--
Brazil	--	--	--	--	--	--
India	--	--	--	--	--	--
Japan	--	--	--	--	--	--
Mexico	--	--	--	--	--	--
Total LNG Exports	4.61	4.80	5.16	4.47	5.99	6.44
CNG						
Canada	3.14	3.39	3.35	3.32	7.73	12.97
Total CNG Exports	3.14	3.39	3.35	3.32	7.73	12.97
Total Exports	3.41	3.57	3.63	3.21	3.79	4.25

-- Not applicable.

Notes: In the case of missing import or export reports on Form FE-746R, "Import and Export of Natural Gas," EIA estimates the missing volumes using pipeline flows or other available information. LNG re-exports are shipments of LNG to foreign countries that were previously imported, offloaded into above-ground LNG storage tanks, and then subsequently reloaded onto tankers for delivery to other countries. Prices are in nominal dollars. LNG prices are a volume-weighted average of the prices reported by cargo. See the "LNG Monthly" (<https://energy.gov/fe/listings/lng-reports>) from the Office of Fossil Energy, U.S. Department of Energy, for more information on what is included in the individual LNG prices.

Source: Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Imports and Exports."

Table 6. Gross withdrawals of natural gas in selected states and the Federal Gulf of Mexico, 2014-2019
(million cubic feet)

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
2014 Total	3,168,545	1,122,733	238,988	1,643,487	286,480	1,968,618	59,160	1,266,379	463,216	512,371
2015 Total	3,175,301	1,010,382	236,648	1,688,733	284,184	1,813,232	58,240	1,296,793	584,632	1,007,270
2016 Total	3,230,193	823,196	205,025	1,688,375	244,795	1,793,406	52,146	1,282,666	608,849	1,437,285
2017										
January	301,493	61,608	16,691	142,790	19,044	162,990	4,135	105,653	48,477	132,135
February	275,044	55,911	15,634	128,838	17,280	141,567	3,777	97,589	48,102	119,348
March	308,111	61,608	17,688	142,161	19,077	177,967	4,168	110,479	53,891	132,135
April	286,963	59,905	17,281	136,409	18,063	155,363	4,087	107,283	55,188	132,359
May	286,678	61,319	17,796	138,439	18,451	162,999	4,235	113,939	57,606	136,771
June	248,829	59,366	17,229	134,382	18,281	168,309	4,126	108,071	55,673	132,359
July	205,707	60,612	19,987	140,105	18,854	167,283	4,247	112,631	58,915	159,314
August	221,579	59,937	17,558	143,311	18,600	183,079	4,277	111,163	60,597	159,314
September	255,362	56,568	17,145	140,164	17,969	189,429	4,054	111,084	58,407	154,174
October	283,192	58,056	18,316	147,258	16,696	212,769	4,155	117,049	64,060	173,541
November	282,589	55,511	16,767	142,452	16,056	207,876	3,970	109,644	62,980	167,942
December	295,221	56,890	17,235	151,359	16,108	217,981	3,989	120,322	64,709	173,541
Total	3,250,769	707,292	209,327	1,687,667	214,480	2,147,612	49,218	1,324,909	688,605	1,772,932
2018										
January	296,763	£51,757	£16,821	£151,072	£17,495	£211,270	£3,927	£113,537	£64,221	£183,232
February	268,604	£46,612	£15,370	£136,802	£15,831	£200,831	£3,478	£106,157	£58,668	£171,082
March	295,802	£51,018	£16,903	£151,348	£17,607	£230,892	£3,783	£123,241	£65,547	£190,999
April	282,720	£51,363	£16,313	£148,397	£17,079	£224,143	£3,738	£121,113	£67,360	£184,005
May	282,751	£51,483	£16,948	£154,111	£17,598	£239,895	£3,934	£124,029	£72,213	£191,843
June	229,020	£49,106	£16,421	£144,180	£16,144	£232,868	£3,734	£123,048	£68,891	£186,149
July	234,050	£49,707	£16,922	£151,809	£17,513	£248,001	£4,015	£132,395	£73,923	£200,544
August	242,885	£49,920	£16,882	£155,356	£17,161	£251,004	£4,015	£135,952	£74,976	£203,149
September	255,600	£48,006	£16,402	£153,057	£16,777	£239,267	£3,890	£131,007	£75,241	£208,660
October	271,064	£49,565	£16,916	£160,033	£17,018	£254,300	£3,918	£138,279	£78,982	£221,811
November	290,820	£47,594	£16,433	£157,889	£16,530	£247,422	£3,879	£134,160	£75,325	£219,442
December	304,668	£48,583	£16,861	£166,454	£16,248	£249,848	£3,963	£141,505	£80,944	£224,196
Total	3,254,747	£594,714	£199,189	£1,830,508	£203,001	£2,829,741	£46,274	£1,524,424	£856,292	£2,385,112
2019										
January	310,279	£47,824	£16,550	£165,670	£16,282	£255,622	£4,068	£143,500	£83,171	£213,010
February	267,512	£42,493	£15,304	£149,053	£14,518	£237,649	£3,451	£135,371	£72,628	£191,241
March	285,417	£46,829	£16,711	£164,528	£16,023	£260,547	£3,887	£151,985	£86,841	£209,214
April	£289,530	£44,935	£16,307	£162,305	£15,778	£245,572	£4,007	£148,128	£84,198	£202,584
May	285,820	£45,302	£16,543	£166,240	£15,430	£249,717	£4,177	£154,212	£87,137	£206,151
2019 5-Month YTD	1,438,558	£227,384	£81,414	£807,795	£78,030	£1,249,108	£19,589	£733,196	£413,976	£1,022,200
2018 5-Month YTD	1,426,640	£252,233	£82,354	£741,730	£85,611	£1,107,031	£18,860	£588,078	£328,010	£921,161
2017 5-Month YTD	1,458,290	300,352	85,090	688,637	91,916	800,886	20,401	534,944	263,264	652,748

See footnotes at end of table.

Table 6. Gross withdrawals of natural gas in selected states and the Federal Gulf of Mexico, 2014-2019

(million cubic feet) – continued

Year and Month	Oklahoma	Pennsylvania	Texas	Utah	West Virginia	Wyoming	Other States	Federal Gulf of Mexico	U.S. Total
2014 Total	2,331,086	4,257,693	8,659,188	454,545	1,067,114	1,998,505	631,536	1,275,738	31,405,381
2015 Total	2,499,599	4,812,983	8,799,465	417,020	1,315,248	1,995,920	611,356	1,307,641	32,914,647
2016 Total	2,468,312	5,210,209	8,156,296	365,268	1,384,458	1,848,623	571,820	1,220,656	32,591,578
2017									
January	193,927	460,918	648,850	27,703	123,989	148,233	47,062	102,987	2,748,684
February	179,163	415,355	600,163	25,039	112,378	136,489	43,038	90,210	2,504,926
March	207,995	460,321	659,935	27,541	126,645	152,801	46,020	103,119	2,811,662
April	203,362	447,576	645,039	26,632	121,705	148,606	44,942	92,253	2,703,018
May	207,889	458,392	673,537	27,553	131,952	147,115	45,864	96,498	2,787,032
June	203,690	443,483	661,942	26,320	130,111	148,655	44,055	88,406	2,693,285
July	213,003	457,004	692,994	26,480	136,091	151,986	43,157	95,280	2,763,649
August	218,247	450,180	675,036	26,376	143,578	153,381	44,419	90,190	2,780,821
September	211,644	443,450	664,234	25,376	139,445	149,107	43,781	85,952	2,767,345
October	226,421	447,617	690,921	25,908	144,282	154,561	43,669	78,293	2,906,765
November	220,016	473,760	680,803	24,992	142,990	153,924	42,894	79,262	2,884,127
December	228,540	505,832	702,282	25,114	147,884	159,824	43,552	75,679	3,006,062
Total	2,513,897	5,463,888	7,995,736	314,733	1,601,047	1,804,681	532,453	1,078,130	33,357,375
2018									
January	£227,286	£500,205	£682,935	£25,601	£141,628	£150,657	£42,447	£78,466	£2,959,321
February	£210,361	£461,491	£627,460	£23,088	£130,261	£134,640	£39,077	£73,749	£2,723,563
March	£240,653	£504,670	£705,295	£26,087	£146,465	£150,489	£44,572	£82,685	£3,048,056
April	£235,092	£491,030	£692,906	£25,100	£138,210	£145,180	£41,853	£74,284	£2,959,887
May	£243,974	£498,922	£739,934	£25,416	£150,963	£147,038	£43,201	£77,499	£3,081,754
June	£241,563	£493,551	£723,434	£24,670	£143,939	£137,975	£42,150	£78,100	£2,954,943
July	£252,810	£525,512	£759,558	£25,144	£143,239	£142,181	£42,429	£88,346	£3,108,098
August	£259,041	£534,949	£775,144	£25,149	£154,543	£142,891	£43,750	£93,447	£3,180,213
September	£253,105	£531,259	£755,750	£24,362	£152,942	£142,420	£41,651	£85,391	£3,134,786
October	£261,852	£555,294	£782,625	£24,739	£163,908	£145,903	£43,529	£82,288	£3,272,022
November	£254,204	£546,469	£766,133	£23,928	£163,643	£139,623	£41,865	£88,071	£3,233,430
December	£266,174	£563,522	£802,801	£24,160	£169,358	£141,900	£42,804	£88,797	£3,352,785
Total	£2,946,117	£6,206,874	£8,813,974	£297,446	£1,799,097	£1,720,897	£509,326	£991,125	£37,008,858
2019									
January	£262,662	£577,495	£806,273	£23,796	£167,795	£130,338	£41,594	£90,502	£3,356,433
February	£240,995	£522,864	£745,847	£21,460	£153,614	£122,593	£37,916	£75,336	£3,049,845
March	RE265,283	RE583,492	RE835,981	RE23,777	RE174,141	RE130,346	RE40,610	RE90,612	RE3,386,222
April	RE262,901	RE565,732	RE813,024	RE23,211	RE169,884	RE128,961	RE39,740	RE86,457	RE3,303,253
May	£270,769	£580,101	£845,765	£23,769	£173,333	£134,108	£40,622	£87,049	£3,386,245
2019 5-Month YTD	£1,302,610	£2,829,683	£4,046,889	£116,014	£838,768	£646,347	£200,482	£429,956	£16,481,998
2018 5-Month YTD	£1,157,367	£2,456,318	£3,448,530	£125,293	£707,527	£728,004	£211,149	£386,684	£14,772,580
2017 5-Month YTD	992,336	2,242,563	3,227,524	134,468	616,667	733,243	226,926	485,067	13,555,322

^R Revised data.^E Estimated data.^{RE} Revised estimated data.

Notes: Data for Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and Federal Offshore Gulf of Mexico are individually collected on the EIA-914 report. The "Other States" category comprises states/areas not individually collected on the EIA-914 report (Alabama, Arizona, Federal Offshore Pacific, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia). Before 2018, Federal Offshore Pacific is included in California. All data for Alaska are obtained directly from the state. Monthly preliminary state-level data for all states not collected individually on the EIA-914 report are available after the final annual reports for these series are collected and processed. Final annual data are generally available in the third quarter of the following year. The sum of individual states may not equal total U.S. volumes due to independent rounding.

Sources: 2014-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*, Bureau of Safety and Environmental Enforcement (BSEE), PointLogic Energy, and BENTEK Energy. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; and EIA computations.

Table 7. Marketed production of natural gas in selected states and the Federal Gulf of Mexico, 2014-2019
(million cubic feet)

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
2014 Total	345,310	1,122,733	238,988	1,643,487	286,480	1,960,813	59,160	1,229,519	326,491	512,371
2015 Total	343,625	1,010,382	236,648	1,688,733	284,184	1,805,197	51,356	1,245,145	471,360	1,007,270
2016 Total	332,749	823,196	205,025	1,685,755	244,795	1,784,396	47,921	1,229,647	531,997	1,437,285
2017										
January	31,022	61,608	16,691	142,554	19,044	162,163	3,889	101,810	41,899	132,135
February	28,145	55,911	15,634	128,554	17,280	140,873	3,530	94,177	42,317	119,348
March	31,344	61,608	17,688	141,880	19,077	177,195	3,897	108,214	47,675	132,135
April	30,373	59,905	17,281	136,194	18,063	154,875	3,773	104,963	48,931	132,359
May	30,399	61,319	17,796	138,206	18,451	162,291	3,965	111,425	50,770	136,771
June	27,509	59,366	17,229	133,912	18,281	167,599	3,863	105,266	48,471	132,359
July	24,025	60,612	19,987	139,706	18,854	166,507	3,990	110,185	51,351	159,314
August	24,427	59,937	17,558	142,957	18,600	182,309	4,022	108,861	51,769	159,314
September	27,205	56,568	17,145	139,869	17,969	188,756	3,757	108,947	48,483	154,174
October	29,536	58,056	18,316	146,976	16,696	211,980	3,866	114,741	52,713	173,541
November	29,760	55,511	16,767	141,944	16,056	207,106	3,760	106,936	54,010	167,942
December	30,640	56,890	17,235	150,637	16,108	217,263	3,777	117,515	55,665	173,541
Total	344,385	707,292	209,327	1,683,388	214,480	2,138,918	46,090	1,293,040	594,053	1,772,932
2018										
January	31,077	£51,757	£16,821	£150,695	£17,495	£210,425	£3,677	£110,801	£55,403	£183,232
February	27,724	£46,612	£15,370	£136,460	£15,831	£200,028	£3,257	£103,599	£50,613	£171,082
March	30,900	£51,018	£16,903	£150,969	£17,607	£229,968	£3,542	£120,271	£56,547	£190,999
April	28,913	£51,363	£16,313	£148,026	£17,079	£223,247	£3,500	£118,195	£58,111	£184,005
May	28,833	£51,483	£16,948	£153,726	£17,598	£238,935	£3,684	£121,040	£62,299	£191,843
June	26,045	£49,106	£16,421	£143,820	£16,144	£231,937	£3,497	£120,082	£59,432	£186,149
July	26,116	£49,707	£16,922	£151,430	£17,513	£247,009	£3,759	£129,204	£63,773	£200,544
August	26,127	£49,920	£16,882	£154,968	£17,161	£250,000	£3,759	£132,675	£64,682	£203,149
September	27,050	£48,006	£16,402	£152,675	£16,777	£238,310	£3,643	£127,850	£64,910	£208,660
October	28,262	£49,565	£16,916	£159,633	£17,018	£253,283	£3,669	£134,946	£68,138	£221,811
November	29,407	£47,594	£16,433	£157,494	£16,530	£246,432	£3,633	£130,927	£64,983	£219,442
December	30,927	£48,583	£16,861	£166,038	£16,248	£248,849	£3,711	£138,095	£69,830	£224,196
Total	341,381	£594,714	£199,189	£1,825,932	£203,001	£2,818,422	£43,331	£1,487,685	£738,723	£2,385,112
2019										
January	30,503	£47,824	£16,550	£165,255	£16,282	£254,600	£3,809	£140,041	£71,752	£213,010
February	26,728	£42,493	£15,304	£148,681	£14,518	£236,698	£3,231	£132,109	£62,656	£191,241
March	29,346	RE46,829	RE16,711	£164,117	RE16,023	RE259,505	RE3,639	RE148,323	RE74,918	RE209,214
April	R28,816	RE44,935	RE16,307	RE161,899	RE15,778	RE244,590	RE3,752	RE144,558	RE72,637	RE202,584
May	29,031	£45,302	£16,543	£165,824	£15,430	£248,719	£3,911	£150,495	£75,173	£206,151
2019 5-Month YTD	144,424	£227,384	£81,414	£805,776	£78,030	£1,244,111	£18,343	£715,526	£357,137	£1,022,200
2018 5-Month YTD	147,447	£252,233	£82,354	£739,876	£85,611	£1,102,603	£17,660	£573,905	£282,974	£921,161
2017 5-Month YTD	151,283	300,352	85,090	687,387	91,916	797,398	19,055	520,590	231,592	652,748

See footnotes at end of table.

Table 7. Marketed production of natural gas in selected states and the Federal Gulf of Mexico, 2014-2019

(million cubic feet) – continued

Year and Month	Oklahoma	Pennsylvania	Texas	Utah	West Virginia	Wyoming	Other States	Federal Gulf of Mexico	U.S. Total
2014 Total	2,331,086	4,257,693	7,985,019	454,545	1,067,114	1,794,413	628,854	1,253,678	27,497,754
2015 Total	2,499,599	4,812,983	7,890,459	417,020	1,315,248	1,808,519	592,373	1,291,945	28,772,044
2016 Total	2,468,312	5,210,209	7,225,472	365,268	1,384,458	1,662,909	559,985	1,200,669	28,400,049
2017									
January	193,927	460,918	562,977	27,703	123,989	125,802	45,868	101,371	2,355,370
February	179,163	415,355	521,489	25,039	112,378	115,936	41,938	88,458	2,145,526
March	207,995	460,321	592,173	27,541	126,645	129,287	44,722	101,586	2,430,983
April	203,362	447,576	583,129	26,632	121,705	131,381	43,761	90,802	2,355,065
May	207,889	458,392	600,541	27,553	131,952	131,989	44,643	95,171	2,429,523
June	203,690	443,483	591,282	26,320	130,111	131,082	42,967	86,831	2,369,620
July	213,003	457,004	621,007	26,480	136,091	134,587	42,014	93,910	2,478,626
August	218,247	450,180	602,991	26,376	143,578	134,827	43,286	88,800	2,478,038
September	211,644	443,450	593,431	25,376	139,445	130,690	42,620	84,476	2,434,007
October	226,421	447,617	623,160	25,908	144,282	137,608	42,363	76,533	2,550,312
November	220,016	473,760	615,496	24,992	142,990	138,440	41,775	78,022	2,534,983
December	228,540	505,832	627,818	25,114	147,884	143,856	42,334	74,340	2,634,990
Total	2,513,897	5,463,888	7,135,494	314,733	1,601,047	1,585,486	518,291	1,060,300	29,197,042
2018									
January	€227,286	€500,205	€609,451	€25,601	€141,628	€132,352	€41,326	€77,172	€2,586,405
February	€210,361	€461,491	€559,945	€23,088	€130,261	€118,281	€38,046	€72,532	€2,384,581
March	€240,653	€504,670	€629,405	€26,087	€146,465	€132,204	€43,395	€81,321	€2,672,927
April	€235,092	€491,030	€618,349	€25,100	€138,210	€127,541	€40,748	€73,059	€2,597,880
May	€243,974	€498,922	€660,317	€25,416	€150,963	€129,173	€42,060	€76,220	€2,713,435
June	€241,563	€493,551	€645,593	€24,670	€143,939	€121,211	€41,037	€76,811	€2,641,008
July	€252,810	€525,512	€677,830	€25,144	€143,239	€124,906	€41,309	€86,889	€2,783,615
August	€259,041	€534,949	€691,738	€25,149	€154,543	€125,530	€42,595	€91,905	€2,844,773
September	€253,105	€531,259	€674,431	€24,362	€152,942	€125,116	€40,551	€83,982	€2,790,030
October	€261,852	€555,294	€698,415	€24,739	€163,908	€128,176	€42,379	€80,930	€2,908,932
November	€254,204	€546,469	€683,697	€23,928	€163,643	€122,659	€40,760	€86,618	€2,854,852
December	€266,174	€563,522	€716,419	€24,160	€169,358	€124,659	€41,674	€87,332	€2,956,635
Total	€2,946,117	€6,206,874	€7,865,591	€297,446	€1,799,097	€1,511,808	€495,880	€974,772	€32,735,074
2019									
January	€262,662	€577,495	€719,518	€23,796	€167,795	€114,502	€40,496	€89,009	€2,954,901
February	€240,995	€522,864	€665,594	€21,460	€153,614	€107,698	€36,915	€74,093	€2,696,892
March	RE265,283	RE583,492	RE746,029	RE23,777	RE174,141	RE114,509	RE39,538	RE89,117	RE3,004,509
April	RE262,901	RE565,732	RE725,543	RE23,211	RE169,884	RE113,292	RE38,691	RE85,030	RE2,920,140
May	€270,769	€580,101	€754,761	€23,769	€173,333	€117,814	€39,550	€85,613	€3,002,288
2019 5-Month YTD	€1,302,610	€2,829,683	€3,611,444	€116,014	€838,768	€567,815	€195,190	€422,862	€14,578,730
2018 5-Month YTD	€1,157,367	€2,456,318	€3,077,468	€125,293	€707,527	€639,552	€205,575	€380,304	€12,955,228
2017 5-Month YTD	992,336	2,242,563	2,860,310	134,468	616,667	634,395	220,931	477,388	11,716,467

^R Revised data.^E Estimated data.^{RE} Revised estimated data.

Notes: For 2018 forward, state monthly marketed production is estimated from gross withdrawals using historical relationships between the two. Data for Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and Federal Offshore Gulf of Mexico are individually collected on the EIA-914 report. The "Other States" category comprises states/areas not individually collected on the EIA-914 report (Alabama, Arizona, Federal Offshore Pacific, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia). Before 2018, Federal Offshore Pacific is included in California. All data for Alaska are obtained directly from the state. Monthly preliminary state-level data for all states not collected individually on the EIA-914 report are available after the final annual reports for these series are collected and processed. Final annual data are generally available in the third quarter of the following year. The sum of individual states may not equal total U.S. volumes due to independent rounding.

Sources: 2014-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*, Bureau of Safety and Environmental Enforcement (BSEE), PointLogic Energy, and BENTEK Energy. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; and EIA computations.

Table 8. Underground natural gas storage – all operators, 2014-2019

(volumes in billion cubic feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total ^c	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^b
2014 Total^c	--	--	--	--	--	3,839	3,586	-253
2015 Total^c	--	--	--	--	--	3,638	3,100	-539
2016 Total^c	--	--	--	--	--	2,977	3,325	348
2017								
January	4,378	2,622	7,000	-316	-10.8	113	787	675
February	4,377	2,337	6,715	-197	-7.8	137	422	285
March	4,378	2,063	6,440	-424	-17.0	175	449	274
April	4,379	2,291	6,670	-354	-13.4	352	122	-230
May	4,385	2,627	7,011	-340	-11.5	430	90	-341
June	4,354	2,907	7,261	-279	-8.8	386	105	-281
July	4,356	3,054	7,410	-264	-8.0	303	154	-150
August	4,355	3,250	7,605	-191	-5.6	353	158	-196
September	4,355	3,567	7,923	-138	-3.7	419	103	-317
October	4,354	3,816	8,170	-196	-4.9	378	131	-247
November	4,353	3,709	8,062	-267	-6.7	199	285	86
December	4,360	3,033	7,392	-264	-8.0	91	785	695
Total	--	--	--	--	--	3,337	3,590	254
2018								
January	4,357	2,141	6,498	-481	-18.4	141	1,037	896
February	4,357	1,673	6,030	-664	-28.4	133	599	467
March	4,353	1,391	5,744	-672	-32.6	164	449	285
April	4,350	1,427	5,778	-864	-37.7	256	224	-32
May	4,352	1,848	6,200	-778	-29.6	489	66	-423
June	4,354	2,196	6,550	-711	-24.5	436	88	-349
July	4,354	2,382	6,736	-672	-22.0	362	175	-186
August	4,355	2,618	6,973	-632	-19.5	407	172	-235
September	4,356	2,951	7,307	-616	-17.3	464	130	-334
October	4,357	3,237	7,594	-580	-15.2	422	131	-291
November	4,356	3,031	7,387	-678	-18.3	213	418	205
December	4,361	2,709	7,070	-324	-10.7	191	511	320
Total	--	--	--	--	--	3,676	3,999	323
2019								
January	4,366	1,994	6,360	-147	-6.9	95	804	709
February	4,366	1,426	5,792	-247	-14.8	104	672	568
March	4,360	1,185	5,545	-206	-14.8	190	435	245
April	4,367	1,560	5,927	132	9.3	486	104	-382
May	4,371	2,031	6,403	183	9.9	557	85	-472

^a Total underground storage capacity at the end of each calendar year (in billion cubic feet): 2014 – 9,233; 2015- 9,231; 2016 – 9,239; and 2017 – 9,261. Total storage capacity of existing fields includes both active and inactive fields.

^b Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

^c Total as of December 31.

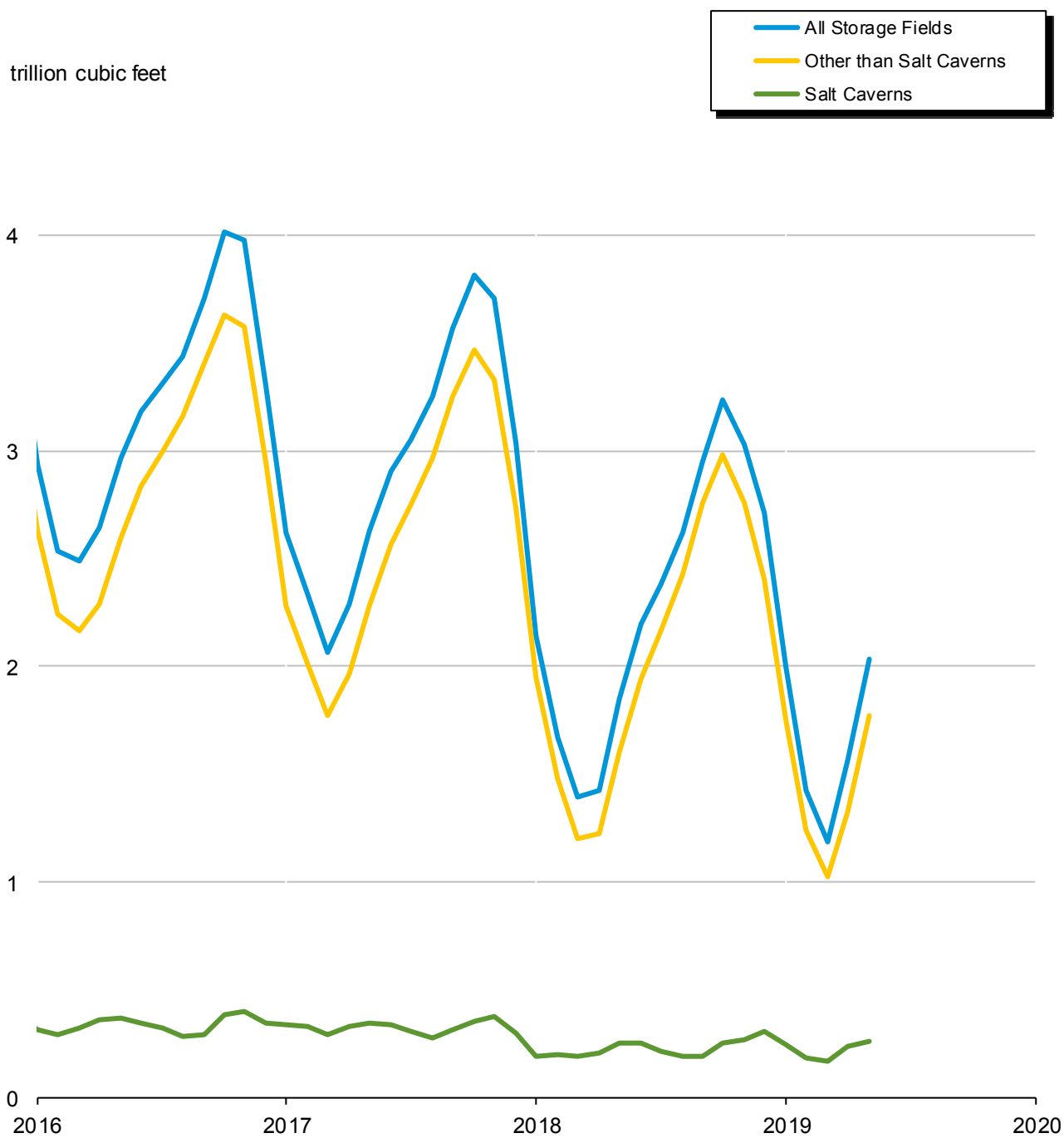
-- Not applicable.

Notes: Data for 2014 through 2016 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Figure 5. Working gas in underground natural gas storage in the United States, 2016-2019

Figure 5



Note: Geographic coverage is the 50 states and the District of Columbia.
Source: Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 9. Underground natural gas storage – by season, 2017-2019

(volumes in billion cubic feet)

Year, Season, and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity			Net Withdrawals ^a
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals		
2017 Refill Season									
April	4,379	2,291	6,670	-354	-13.4	352	122	-230	
May	4,385	2,627	7,011	-340	-11.5	430	90	-341	
June	4,354	2,907	7,261	-279	-8.8	386	105	-281	
July	4,356	3,054	7,410	-264	-8.0	303	154	-150	
August	4,355	3,250	7,605	-191	-5.6	353	158	-196	
September	4,355	3,567	7,923	-138	-3.7	419	103	-317	
October	4,354	3,816	8,170	-196	-4.9	378	131	-247	
Total	--	--	--	--	--	2,622	861	-1,761	
2018 Heating Season									
November	4,353	3,709	8,062	-267	-6.7	199	285	86	
December	4,360	3,033	7,392	-264	-8.0	91	785	695	
January	4,357	2,141	6,498	-481	-18.4	141	1,037	896	
February	4,357	1,673	6,030	-664	-28.4	133	599	467	
March	4,353	1,391	5,744	-672	-32.6	164	449	285	
Total	--	--	--	--	--	727	3,155	2,428	
2018 Refill Season									
April	4,350	1,427	5,778	-864	-37.7	256	224	-32	
May	4,352	1,848	6,200	-778	-29.6	489	66	-423	
June	4,354	2,196	6,550	-711	-24.5	436	88	-349	
July	4,354	2,382	6,736	-672	-22.0	362	175	-186	
August	4,355	2,618	6,973	-632	-19.5	407	172	-235	
September	4,356	2,951	7,307	-616	-17.3	464	130	-334	
October	4,357	3,237	7,594	-580	-15.2	422	131	-291	
Total	--	--	--	--	--	2,835	985	-1,850	
2019 Heating Season									
November	4,356	3,031	7,387	-678	-18.3	213	418	205	
December	4,361	2,709	7,070	-324	-10.7	191	511	320	
January	4,366	1,994	6,360	-147	-6.9	95	804	709	
February	4,366	1,426	5,792	-247	-14.8	104	672	568	
March	4,360	1,185	5,545	-206	-14.8	190	435	245	
Total	--	--	--	--	--	793	2,840	2,047	
2019 Refill Season									
April	4,367	1,560	5,927	132	9.3	486	104	-382	
May	4,371	2,031	6,403	183	9.9	557	85	-472	

^a Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

-- Not applicable.

Notes: Data for 2016 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 10. Underground natural gas storage – salt cavern storage fields, 2014-2019
(volumes in billion cubic feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^a
2014 Total^b	--	--	--	--	--	634	552	-82
2015 Total^b	--	--	--	--	--	606	550	-56
2016 Total^b	--	--	--	--	--	593	624	32
2017								
January	195	338	533	26	8.3	69	80	11
February	195	328	522	33	11.0	43	53	10
March	196	292	487	-31	-9.5	51	86	35
April	197	326	523	-32	-9.0	79	43	-36
May	197	343	539	-25	-6.8	65	49	-16
June	196	339	535	-9	-2.7	48	51	4
July	198	304	502	-15	-4.7	32	66	34
August	198	279	477	-2	-0.8	42	67	24
September	197	318	515	23	7.7	79	41	-38
October	197	350	548	-33	-8.5	84	51	-33
November	197	379	576	-24	-5.9	66	38	-28
December	197	297	493	-52	-14.9	44	127	83
Total	--	--	--	--	--	701	752	50
2018								
January	195	192	388	-145	-43.0	84	189	105
February	196	196	392	-131	-40.1	60	55	-5
March	194	193	387	-99	-33.9	57	61	3
April	194	203	397	-123	-37.7	63	54	-8
May	195	249	444	-93	-27.2	79	31	-47
June	195	256	451	-83	-24.6	49	44	-6
July	196	214	410	-90	-29.5	35	77	41
August	196	188	384	-91	-32.7	44	71	27
September	196	191	387	-127	-39.9	65	62	-4
October	195	255	450	-96	-27.3	106	45	-61
November	195	271	466	-108	-28.5	81	65	-16
December	196	305	501	9	2.9	88	54	-34
Total	--	--	--	--	--	811	807	-4
2019								
January	196	243	439	51	26.4	45	108	62
February	195	183	377	-14	-6.9	42	104	62
March	192	165	357	-28	-14.6	68	87	19
April	196	234	431	31	15.5	109	36	-73
May	197	258	456	9	3.6	75	51	-25
2019 5-Month YTD	--	--	--	--	--	341	386	46
2018 5-Month YTD	--	--	--	--	--	342	390	48
2017 5-Month YTD	--	--	--	--	--	307	311	4

^a Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

^b Total as of December 31.

-- Not applicable.

Notes: Data for 2014 through 2016 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 11. Underground natural gas storage – storage fields other than salt caverns, 2014-2019
(volumes in billion cubic feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^a
2014 Total^b	--	--	--	--	--	3,205	3,034	-171
2015 Total^b	--	--	--	--	--	3,032	2,549	-482
2016 Total^b	--	--	--	--	--	2,384	2,700	316
2017								
January	4,183	2,284	6,468	-342	-13.0	44	708	664
February	4,183	2,010	6,192	-230	-10.2	94	369	275
March	4,182	1,771	5,953	-393	-18.2	124	364	239
April	4,182	1,965	6,147	-322	-14.1	273	79	-194
May	4,188	2,284	6,472	-315	-12.1	365	40	-325
June	4,158	2,568	6,725	-270	-9.5	338	53	-284
July	4,158	2,750	6,908	-249	-8.3	272	88	-184
August	4,158	2,971	7,129	-189	-6.0	311	91	-220
September	4,158	3,250	7,408	-161	-4.7	340	62	-279
October	4,156	3,466	7,622	-164	-4.5	295	80	-215
November	4,156	3,330	7,487	-244	-6.8	133	247	114
December	4,163	2,736	6,899	-212	-7.2	47	659	612
Total	--	--	--	--	--	2,635	2,839	203
2018								
January	4,162	1,948	6,110	-336	-14.7	57	848	791
February	4,161	1,477	5,638	-533	-26.5	73	544	471
March	4,159	1,198	5,357	-573	-32.3	107	388	282
April	4,156	1,224	5,381	-741	-37.7	193	170	-23
May	4,157	1,599	5,755	-685	-30.0	410	35	-376
June	4,158	1,940	6,099	-627	-24.4	387	44	-343
July	4,159	2,168	6,326	-583	-21.2	326	99	-228
August	4,159	2,430	6,588	-541	-18.2	363	101	-262
September	4,160	2,760	6,920	-489	-15.1	398	68	-330
October	4,162	2,982	7,144	-484	-14.0	316	86	-229
November	4,161	2,760	6,921	-571	-17.1	132	353	221
December	4,165	2,404	6,568	-332	-12.1	102	457	354
Total	--	--	--	--	--	2,864	3,192	327
2019								
January	4,170	1,751	5,921	-198	-10.1	50	696	646
February	4,171	1,243	5,415	-234	-15.8	62	568	506
March	4,167	1,020	5,188	-178	-14.8	122	348	226
April	4,171	1,325	5,496	101	8.2	376	67	-309
May	4,174	1,773	5,947	174	10.9	481	34	-447
2019 5-Month YTD	--	--	--	--	--	1,091	1,713	622
2018 5-Month YTD	--	--	--	--	--	840	1,985	1,144
2017 5-Month YTD	--	--	--	--	--	900	1,559	659

^a Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

^b Total as of December 31.

-- Not applicable.

Notes: Data for 2014 through 2016 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 12. Net withdrawals from underground storage, by state, 2017-2019
(million cubic feet)

State	2019					2018	
	May	April	March	February	January	Total	December
Alabama	-1,047	-4,541	1,480	3,277	1,154	2,660	-4,038
Alaska ^a	-1,169	-145	1,222	2,658	3,160	-896	1,678
Arkansas	-903	-312	696	1,094	1,185	-654	763
California	-45,527	-39,081	-1,442	50,783	30,628	52,175	33,067
Colorado	-2,673	-482	1,062	7,360	10,411	5,422	9,020
Illinois	-29,250	-2,460	21,726	44,951	71,746	-3,407	44,338
Indiana	-2,093	-99	2,798	3,994	6,207	-279	3,094
Iowa	-4,426	-332	2,664	8,451	18,111	2,874	18,169
Kansas	-17,835	-13,773	7,971	22,056	24,030	-796	14,219
Kentucky	-11,913	-15,484	4,786	11,343	18,947	10,209	6,435
Louisiana	-42,541	-56,512	17,530	50,760	60,935	58,314	10,719
Maryland	-1,647	-1,044	3,480	2,834	3,137	-2,128	-346
Michigan	-86,826	-45,883	65,710	115,237	138,813	43,376	58,969
Minnesota	6	59	277	250	512	-274	22
Mississippi	-6,327	-24,390	6,673	14,485	26,551	7,009	-13,517
Missouri	8	-201	-410	11	1,325	-816	-118
Montana	-2,731	-1,857	1,364	6,273	4,655	7,240	3,051
Nebraska	-1,551	-604	304	2,061	2,218	464	1,209
New Mexico	-3,961	-2,805	-148	727	1,041	9,745	-302
New York	-5,889	-7,371	7,677	14,552	18,955	14,193	10,444
Ohio	-22,804	-9,978	25,100	34,073	38,856	4,840	21,319
Oklahoma	-24,181	-16,486	8,971	25,251	27,838	11,813	11,329
Oregon	-2,302	-750	15	4,007	5,447	-955	3,090
Pennsylvania	-55,605	-33,670	41,514	65,257	80,114	17,829	35,891
Tennessee	-82	-37	24	6	78	-35	138
Texas	-38,598	-64,861	1,134	18,393	42,024	58,872	15,521
Utah	-7,668	-4,492	5,387	8,384	10,048	7,760	7,577
Virginia	234	-603	419	-55	979	-973	-186
Washington	-6,802	-3,896	-2,335	5,868	5,673	-802	1,698
West Virginia	-38,734	-27,036	18,400	39,896	50,155	17,127	23,533
Wyoming	-6,945	-2,941	1,199	3,903	3,680	2,911	3,553
Regions							
East Region	-124,445	-79,702	96,588	156,555	192,196	50,888	90,655
South Central Region	-131,433	-180,876	44,455	135,316	183,717	137,218	34,995
Midwest Region	-134,577	-64,436	97,575	184,242	255,741	51,647	131,047
Mountain Region	-25,528	-13,181	9,168	28,709	32,052	33,542	24,109
Pacific Region	-54,630	-43,727	-3,761	60,659	41,748	50,417	37,856
Total Lower 48 States	-470,615	-381,923	244,024	565,482	705,454	323,713	318,661
U.S. Total	-471,784	-382,067	245,246	568,139	708,614	322,817	320,339

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2017-2019

(million cubic feet) – continued

State	2018						
	November	October	September	August	July	June	May
Alabama	-553	-3,424	3,736	3,070	2,879	1,165	-3,590
Alaska ^a	376	-743	-1,536	-1,795	-1,862	-1,749	-856
Arkansas	779	-345	-522	-931	-793	-838	-917
California	11,111	-365	-12,150	290	8,376	-18,473	-29,083
Colorado	1,471	-2,840	-4,713	-5,997	-2,338	-6,154	-6,557
Illinois	5,019	-43,390	-42,720	-34,744	-28,754	-29,674	-20,286
Indiana	497	-2,417	-3,720	-4,155	-2,826	-3,023	-1,240
Iowa	8,860	-19,964	-19,504	-15,538	-1,673	-1,593	-2,828
Kansas	6,918	-8,986	-13,872	-13,675	-12,141	-12,300	-12,254
Kentucky	5,196	-4,344	-9,599	-4,460	-2,846	-5,514	-10,612
Louisiana	22,799	-24,437	-20,246	-4,409	7,158	-17,984	-42,625
Maryland	288	-1,099	-652	-2,598	-2,904	-3,246	-1,661
Michigan	44,138	-54,740	-65,317	-74,298	-76,375	-75,997	-75,307
Minnesota	10	-196	-279	-269	-221	-162	6
Mississippi	825	-18,359	9,728	11,902	13,724	-1,213	-15,259
Missouri	-124	-330	-244	25	24	25	-345
Montana	3,536	2,479	-2,451	-4,466	-4,171	-4,023	-4,084
Nebraska	327	64	-1,400	-839	-633	-887	-2,061
New Mexico	-1,194	-2,223	-488	1,475	3,751	93	-818
New York	7,608	-4,921	-14,541	-9,405	-6,908	-8,007	-12,164
Ohio	18,578	-7,023	-22,743	-25,825	-25,872	-25,869	-26,345
Oklahoma	6,616	-14,498	-10,303	-13,480	-5,348	-13,098	-17,878
Oregon	-454	-725	-2,316	431	-1,178	-2,824	-2,644
Pennsylvania	25,911	-30,599	-54,224	-28,602	-39,628	-46,334	-50,138
Tennessee	59	23	2	-58	-82	-75	-96
Texas	-3,988	-35,251	-12,209	28,939	26,147	-22,403	-37,196
Utah	6,999	-2,699	-5,992	-3,631	-4,035	-6,954	-8,576
Virginia	457	-1,094	-176	214	74	-77	-607
Washington	1,393	53	-2,437	-2,448	1,854	-5,671	-4,561
West Virginia	27,577	-7,429	-22,336	-28,124	-29,175	-33,562	-28,088
Wyoming	3,845	-702	-841	-1,932	-612	-2,156	-4,390
Regions							
East Region	80,420	-52,163	-114,671	-94,340	-104,413	-117,095	-119,003
South Central Region	33,396	-105,300	-43,688	11,415	31,626	-66,671	-129,720
Midwest Region	63,655	-125,358	-141,382	-133,497	-112,753	-116,013	-110,707
Mountain Region	14,985	-5,921	-15,884	-15,390	-8,038	-20,081	-26,486
Pacific Region	12,049	-1,037	-16,903	-1,727	9,052	-26,969	-36,288
Total Lower 48 States	204,504	-289,779	-332,528	-233,540	-184,526	-346,829	-422,203
U.S. Total	204,880	-290,521	-334,064	-235,335	-186,388	-348,578	-423,060

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2017-2019

(million cubic feet) – continued

State	2018				Total	2017	
	April	March	February	January		December	November
Alabama	-2,801	-2,192	885	7,522	3,570	2,448	-1,237
Alaska ^a	25	1,020	1,988	2,559	-3,585	1,309	1,622
Arkansas	-193	776	616	951	-629	1,220	397
California	-18,639	10,696	25,368	41,978	5,688	37,901	6,223
Colorado	127	4,370	9,346	9,686	-309	13,278	-4,315
Illinois	7,769	31,354	43,006	64,676	8,410	57,696	-333
Indiana	542	3,497	4,115	5,357	-69	4,827	-1,525
Iowa	1,387	6,081	9,545	19,932	329	20,539	6,240
Kansas	-1,471	9,818	19,645	23,304	6,142	22,474	-872
Kentucky	3,827	312	8,578	23,235	15,130	15,659	3,170
Louisiana	7,969	7,193	16,429	95,750	26,198	57,784	-10,494
Maryland	654	1,983	2,961	4,492	-1,045	2,079	816
Michigan	15,716	77,908	107,038	161,641	47,361	121,334	39,265
Minnesota	112	175	290	238	248	298	-9
Mississippi	-3,445	-2,922	-12,144	37,691	21,817	29,161	-4,909
Missouri	321	98	-133	-15	248	864	-210
Montana	-591	4,348	6,469	7,142	2,360	7,373	3,931
Nebraska	-472	1	1,856	3,298	1,266	2,753	-232
New Mexico	-258	1,785	3,846	4,077	11,752	4,715	1,939
New York	-952	14,822	15,424	22,793	-3,120	15,467	5,738
Ohio	4,379	27,353	24,424	42,463	9,594	33,605	16,388
Oklahoma	-6,196	5,470	31,221	37,977	23,004	27,244	3,272
Oregon	29	-261	2,704	3,193	214	5,113	190
Pennsylvania	858	60,784	53,807	90,102	9,738	61,182	20,680
Tennessee	-44	-30	25	104	-45	68	5
Texas	-28,408	-15,104	36,004	106,822	65,344	84,716	-11,751
Utah	-1,893	3,257	9,335	14,371	2,594	12,258	-177
Virginia	-627	1,485	-193	-243	912	1,051	-144
Washington	-2,546	2,206	6,762	2,896	1,133	4,053	-191
West Virginia	-6,014	28,590	33,907	58,248	-5,627	43,252	13,698
Wyoming	-936	136	3,444	3,503	5,222	3,028	-1,194
Regions							
East Region	-1,702	135,016	130,329	217,855	10,452	156,637	57,175
South Central Region	-34,545	3,039	92,655	310,017	145,446	225,046	-25,593
Midwest Region	29,630	119,395	172,464	275,168	71,612	221,285	46,603
Mountain Region	-4,022	13,898	34,295	42,077	22,884	43,405	-48
Pacific Region	-21,156	12,640	34,834	48,067	7,035	47,067	6,222
Total Lower 48 States	-31,796	283,988	464,577	893,183	257,429	693,440	84,358
U.S. Total	-31,771	285,008	466,564	895,742	253,844	694,748	85,980

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2017-2019

(million cubic feet) – continued

State	2017						
	October	September	August	July	June	May	April
Alabama	-3,630	-561	3,628	3,386	498	169	-1,292
Alaska ^a	-476	-1,624	-2,476	-2,424	-2,108	-1,525	-1,076
Arkansas	-251	-582	-574	-647	-581	-595	-272
California	-4,453	-12,170	1,123	-6,826	-13,935	-23,446	-16,167
Colorado	-582	-6,013	-2,922	-5,245	-5,660	-4,519	-1,374
Illinois	-40,165	-41,306	-34,888	-25,184	-32,389	-17,012	4,438
Indiana	-2,472	-2,352	-2,191	-2,486	-2,782	-1,664	-501
Iowa	-20,082	-19,446	-11,805	-1,696	-1,917	-1,579	1,288
Kansas	-5,986	-5,422	656	-2,088	-4,611	-14,016	-10,252
Kentucky	-10,110	-8,402	-1,317	5,583	1,693	-8,818	-12,511
Louisiana	-13,491	-23,167	3,696	1,075	-5,251	-19,393	-22,014
Maryland	-533	-1,395	-2,626	-2,873	-2,241	-3,128	-280
Michigan	-34,646	-52,348	-54,494	-38,760	-57,334	-55,198	-39,909
Minnesota	-232	-242	-244	-220	-190	-63	36
Mississippi	-11,495	-17,129	4,913	14,979	-476	-3,259	-8,395
Missouri	-217	-432	*	0	*	0	*
Montana	-812	-4,091	-2,393	-3,558	-4,182	-4,160	-2,002
Nebraska	-702	-1,206	-564	-935	182	-1,017	-979
New Mexico	235	241	2,883	1,623	68	-1,257	-1,704
New York	-10,854	-13,746	-15,700	-8,367	-12,765	-7,272	-5,894
Ohio	-3,490	-22,590	-24,349	-26,059	-26,200	-18,721	-5,818
Oklahoma	-9,766	-4,340	1,626	1,039	-10,437	-13,581	-4,742
Oregon	-705	-899	-702	-545	-1,472	-3,170	-336
Pennsylvania	-31,295	-33,239	-47,206	-37,135	-46,732	-51,111	-33,170
Tennessee	-31	-42	11	8	-41	-32	-29
Texas	-30,361	-16,898	19,068	18,244	-15,267	-37,200	-30,805
Utah	-1,600	-4,342	-1,449	-3,718	-5,162	-7,294	-2,628
Virginia	-40	-761	-317	349	45	-513	-310
Washington	1,203	-3,610	-2,225	329	-2,739	-5,577	-2,596
West Virginia	-11,598	-17,030	-24,959	-26,009	-26,523	-33,844	-30,240
Wyoming	1,188	-1,390	172	-1,694	-2,290	-1,936	-632
Regions							
East Region	-57,810	-88,761	-115,156	-100,093	-114,416	-114,589	-75,713
South Central Region	-74,980	-68,100	33,012	35,989	-36,126	-87,874	-77,772
Midwest Region	-107,955	-124,569	-104,928	-62,755	-92,960	-84,366	-47,188
Mountain Region	-2,273	-16,801	-4,273	-13,527	-17,044	-20,183	-9,318
Pacific Region	-3,956	-16,679	-1,804	-7,041	-18,145	-32,194	-19,099
Total Lower 48 States	-246,975	-314,911	-193,148	-147,426	-278,691	-339,205	-229,091
U.S. Total	-247,451	-316,535	-195,625	-149,850	-280,799	-340,730	-230,167

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2017-2019

(million cubic feet) – continued

State	2017		
	March	February	January
Alabama	1,420	-1,005	-254
Alaska ^a	1,572	1,409	2,213
Arkansas	772	66	418
California	-17,258	4,300	50,395
Colorado	1,199	4,859	10,983
Illinois	35,264	42,917	59,371
Indiana	2,040	3,067	5,972
Iowa	5,165	8,052	15,571
Kansas	5,246	2,192	18,823
Kentucky	5,772	7,787	16,622
Louisiana	22,982	11,892	22,579
Maryland	3,170	2,048	3,915
Michigan	63,573	47,176	108,702
Minnesota	342	450	321
Mississippi	6,585	1,802	10,041
Missouri	100	-20	163
Montana	1,137	4,042	7,075
Nebraska	-287	1,408	2,844
New Mexico	-2,779	1,321	4,466
New York	17,047	12,369	20,857
Ohio	27,859	22,619	36,350
Oklahoma	-5,893	3,193	35,389
Oregon	-2,364	606	4,500
Pennsylvania	70,898	54,306	82,560
Tennessee	-5	14	31
Texas	1,147	6,329	78,122
Utah	-518	5,334	11,889
Virginia	689	685	180
Washington	1,556	4,022	6,908
West Virginia	27,775	29,958	49,893
Wyoming	234	1,737	8,000
Regions			
East Region	147,438	121,986	193,754
South Central Region	32,259	24,469	165,118
Midwest Region	112,250	109,443	206,754
Mountain Region	-1,014	18,701	45,258
Pacific Region	-18,066	8,927	61,803
Total Lower 48 States	272,867	283,526	672,686
U.S. Total	274,439	284,935	674,900

^a Alaska data are not included in the regions' totals or the lower 48 states total.^{*} Volume is less than 500 Mcf.

Notes: This table contains total net withdrawals for each of the states with natural gas storage facilities. Positive numbers indicate the volume of withdrawals in excess of injections. Negative values indicate the volume of injections in excess of withdrawals. EIA publishes weekly estimates of working gas in underground storage by geographical region. See Explanatory Note 5 in Appendix A for a list of the five regions shown in this table and the states included in each.

Source: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 13. Activities of underground natural gas storage operators, by state, May 2019

(volumes in million cubic feet)

State	Field Count	Total Storage Capacity	Working Gas Storage Capacity	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity	
				Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals
Alabama	2	43,600	33,150	10,450	16,339	26,789	-3,187	-16.3	2,064	1,017
Alaska ^a	5	83,592	67,915	14,197	31,320	45,517	-133	-0.4	1,506	337
Arkansas	2	21,774	8,894	12,880	1,666	14,546	129	8.4	903	0
California	14	604,048	373,966	230,115	186,198	416,313	-16,756	-8.3	46,193	666
Colorado	10	140,407	72,554	60,320	23,122	83,441	-4,053	-14.9	7,531	4,858
Illinois	28	1,009,080	303,613	706,365	91,390	797,755	22,590	32.8	29,875	625
Indiana	23	113,006	32,279	80,740	12,091	92,832	2,099	21.0	2,106	13
Iowa	4	288,210	90,313	197,881	24,002	221,883	6,792	39.5	4,917	491
Kansas	16	282,986	122,982	163,821	54,293	218,114	12,341	29.4	19,901	2,065
Kentucky	22	221,695	107,596	112,805	55,167	167,972	7,581	15.9	12,296	383
Louisiana	19	740,003	446,812	285,494	218,788	504,282	-6,986	-3.1	69,116	26,576
Maryland	1	64,000	18,300	45,677	8,894	54,571	3,796	74.5	1,691	44
Michigan	44	1,071,608	683,820	386,911	251,835	638,747	56,598	29.0	88,247	1,421
Minnesota	1	7,000	2,000	4,848	1,009	5,857	-9	-0.8	0	6
Mississippi	11	331,890	202,584	122,169	90,775	212,943	-17,032	-15.8	17,100	10,772
Missouri	1	13,845	3,656	10,189	2,412	12,601	166	7.4	*	8
Montana	4	376,225	197,477	179,613	8,469	188,082	-3,074	-26.6	2,879	148
Nebraska	1	34,850	12,653	22,197	5,295	27,491	-317	-5.6	1,551	0
New Mexico	2	89,100	59,738	29,362	28,553	57,915	4,034	16.5	3,983	22
New York	26	245,779	127,487	114,177	49,422	163,599	-2,493	-4.8	8,288	2,399
Ohio	24	575,109	253,750	321,358	68,963	390,322	2,236	3.4	23,729	925
Oklahoma	12	372,191	195,582	176,466	98,847	275,312	16,740	20.4	26,410	2,229
Oregon	8	33,384	18,475	14,909	7,178	22,087	-2,691	-27.3	2,302	*
Pennsylvania	49	763,296	427,601	334,943	181,080	516,023	39,960	28.3	62,042	6,438
Tennessee	2	2,400	1,800	878	1,302	2,179	*	0.0	82	0
Texas	35	845,081	544,640	294,766	345,476	640,242	45,538	15.2	60,261	21,663
Utah	3	124,509	54,942	69,508	18,182	87,690	-2,937	-13.9	8,014	346
Virginia	2	8,960	4,930	4,030	3,947	7,977	-116	-2.9	295	529
Washington	1	46,900	24,600	22,300	20,998	43,298	7,531	55.9	6,859	57
West Virginia	31	531,706	268,803	262,693	105,913	368,606	26,377	33.2	39,641	906
Wyoming	9	139,947	58,492	79,389	18,199	97,588	-11,739	-39.2	7,133	188
Regions										
East Region	133	2,188,849	1,100,871	1,082,879	418,218	1,501,097	69,759	20.0	135,687	11,241
South Central Region	97	2,637,525	1,554,643	1,066,045	826,185	1,892,230	47,542	6.1	195,756	64,322
Midwest Region	125	2,726,843	1,225,076	1,500,618	439,208	1,939,826	95,817	27.9	137,524	2,947
Mountain Region	29	905,038	455,856	440,389	101,820	542,208	-18,087	-15.1	31,091	5,562
Pacific Region	23	684,332	417,041	267,324	214,374	481,699	-11,917	-5.3	55,354	724
Total Lower 48 States	407	9,142,587	4,753,487	4,357,255	1,999,804	6,357,059	183,114	10.1	555,411	84,797
U.S. Total	412	9,226,179	4,821,403	4,371,452	2,031,124	6,402,576	182,981	9.9	556,917	85,133

^a Alaska data are not included in the regions' totals or the lower 48 states total.

* Volume is less than 500 Mcf.

Notes: Existing fields include both active and inactive fields. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Total gas capacity may not equal the sum of base gas and working gas capacity, owing to changes in operational conditions. Totals may not equal sum of components because of independent rounding. EIA publishes weekly estimates of working gas in underground storage by geographical region. See Explanatory Note 5 in Appendix A for a list of the five regions shown in this table and the states included in each.

Source: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 14. Natural gas deliveries to residential consumers, by state, 2017-2019

(million cubic feet)

State	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Alabama	NA	20,830	13,585	NA	1,797	3,846	3,757
Alaska	9,622	10,052	10,830	982	1,442	2,126	2,268
Arizona	25,987	19,819	20,333	2,053	2,706	5,556	7,322
Arkansas	NA	20,268	14,187	1,261	1,936	NA	5,005
California	254,129	226,054	235,079	30,612	30,595	51,644	74,103
Colorado	80,890	72,675	64,313	7,639	9,644	19,493	20,706
Connecticut	32,584	32,154	29,352	2,375	3,952	7,506	8,536
Delaware	7,286	NA	5,999	358	680	1,708	2,058
District of Columbia	NA	7,384	6,958	400	755	1,673	NA
Florida	8,899	9,564	7,736	1,172	1,533	1,643	2,136
Georgia	67,627	72,099	53,916	4,732	7,052	15,017	15,580
Hawaii	265	261	254	51	51	55	51
Idaho	15,807	14,061	15,827	1,111	1,846	3,443	4,546
Illinois	266,115	259,529	211,874	18,771	30,310	60,542	71,414
Indiana	87,517	86,671	68,373	4,772	8,703	20,848	23,416
Iowa	44,231	42,274	34,936	2,705	4,643	10,026	12,597
Kansas	41,327	40,449	30,294	1,909	3,184	9,344	12,892
Kentucky	28,875	30,949	22,730	1,190	2,258	7,121	7,650
Louisiana	21,445	21,791	13,667	1,608	2,542	4,415	5,108
Maine	1,908	1,755	1,639	159	258	420	508
Maryland	48,768	NA	43,005	2,844	3,720	11,549	14,364
Massachusetts	72,933	81,963	70,913	5,642	8,936	17,385	18,227
Michigan	206,171	197,691	165,953	13,879	25,288	47,932	52,919
Minnesota	87,428	NA	69,940	6,556	10,239	18,976	24,779
Mississippi	13,212	14,260	9,215	628	1,241	3,172	3,092
Missouri	67,936	67,413	47,974	3,278	5,321	15,740	20,104
Montana	NA	NA	11,930	NA	1,548	3,262	4,643
Nebraska	25,994	26,202	20,143	1,756	2,545	6,234	7,843
Nevada	27,629	22,980	24,047	2,209	2,961	6,197	7,914
New Hampshire	4,851	4,603	4,234	358	581	1,076	1,275
New Jersey	139,409	147,100	128,422	9,563	14,442	33,538	37,529
New Mexico	21,040	18,927	16,687	1,572	2,317	4,063	5,824
New York	291,387	286,927	252,872	22,555	34,783	71,039	73,069
North Carolina	NA	44,094	31,061	NA	3,069	9,511	9,950
North Dakota	8,681	NA	6,262	609	973	1,872	2,691
Ohio	178,426	174,610	141,635	10,326	19,144	43,397	47,551
Oklahoma	41,133	39,501	27,606	2,100	3,489	9,414	12,095
Oregon	26,566	23,054	26,989	1,710	3,367	6,004	8,108
Pennsylvania	150,043	154,418	127,921	8,511	14,539	35,708	40,517
Rhode Island	11,926	11,691	10,589	864	1,382	2,799	3,079
South Carolina	16,872	18,653	12,794	587	1,678	3,702	4,348
South Dakota	9,061	NA	7,078	708	1,103	2,028	2,662
Tennessee	40,922	45,470	29,436	1,617	3,437	10,028	10,350
Texas	137,998	NA	94,347	7,934	16,538	32,425	37,125
Utah	NA	35,462	34,978	NA	3,703	8,592	10,954
Vermont	2,565	2,422	2,132	220	375	562	666
Virginia	50,585	NA	43,146	1,910	4,414	11,590	14,298
Washington	48,737	45,275	50,803	3,186	6,180	10,465	15,634
West Virginia	14,748	NA	12,817	667	1,375	3,893	3,733
Wisconsin	90,762	85,371	73,850	6,967	11,378	19,461	24,220
Wyoming	8,987	8,155	7,459	948	1,348	2,149	2,316
Total	2,978,850	2,925,383	2,468,120	211,692	327,302	685,769	803,709

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2017-2019

(million cubic feet) – continued

State	2019						2018
	January	Total	December	November	October	September	August
Alabama	7,817	35,026	6,221	4,165	1,024	664	708
Alaska	2,804	18,587	2,609	2,094	1,318	754	590
Arizona	8,349	35,043	5,771	3,161	1,669	1,130	1,047
Arkansas	6,472	32,778	5,218	3,820	1,197	593	554
California	67,175	NA	63,860	38,605	22,816	19,331	NA
Colorado	23,408	133,446	23,775	16,632	8,974	3,264	2,777
Connecticut	10,215	53,100	7,970	6,068	2,515	1,052	951
Delaware	2,482	NA	1,740	1,202	373	167	166
District of Columbia	2,128	12,438	1,983	1,529	501	250	271
Florida	2,414	16,954	1,978	1,183	848	834	752
Georgia	25,246	132,751	21,345	17,131	6,303	3,884	4,087
Hawaii	58	590	49	47	44	45	47
Idaho	4,861	27,111	5,079	3,739	1,726	734	567
Illinois	85,078	435,421	63,233	57,572	23,343	8,018	7,334
Indiana	29,778	143,773	21,660	19,405	7,255	2,470	2,103
Iowa	14,259	69,576	10,411	8,799	3,675	1,270	1,056
Kansas	13,997	69,351	11,009	9,516	3,302	1,484	1,158
Kentucky	10,656	51,210	7,764	6,900	2,545	852	748
Louisiana	7,772	39,149	6,155	4,531	1,776	1,320	1,121
Maine	563	3,020	483	378	168	60	54
Maryland	16,290	NA	12,788	10,157	3,467	1,553	1,474
Massachusetts	22,742	130,084	18,840	13,850	5,119	2,640	2,360
Michigan	66,153	336,215	49,585	43,481	22,202	6,189	6,046
Minnesota	26,879	NA	20,633	17,589	9,150	2,857	2,485
Mississippi	5,078	24,453	4,123	3,071	934	493	560
Missouri	23,493	114,010	18,239	16,228	5,272	1,744	1,662
Montana	3,501	NA	3,355	2,665	1,680	465	382
Nebraska	7,617	42,428	6,377	4,878	2,116	687	609
Nevada	8,349	41,094	6,806	3,980	1,995	1,383	1,134
New Hampshire	1,561	7,745	1,258	1,000	257	170	149
New Jersey	44,336	238,504	35,463	25,260	11,001	4,694	4,311
New Mexico	7,264	NA	6,487	NA	1,811	835	876
New York	89,940	475,539	67,676	54,825	22,820	10,494	9,705
North Carolina	15,222	74,354	13,131	10,643	2,447	992	959
North Dakota	2,537	NA	1,976	1,746	1,027	211	186
Ohio	58,007	294,385	44,504	39,632	16,770	4,990	4,620
Oklahoma	14,035	66,143	11,620	8,731	1,827	1,173	1,101
Oregon	7,377	42,767	7,270	5,406	2,648	1,238	900
Pennsylvania	50,767	253,132	38,049	30,868	12,525	4,405	4,135
Rhode Island	3,803	19,804	2,982	2,370	1,233	364	379
South Carolina	6,556	31,634	6,016	4,076	925	488	497
South Dakota	2,560	NA	2,106	1,503	923	210	192
Tennessee	15,490	73,422	13,105	8,527	2,018	1,110	914
Texas	43,975	NA	35,193	22,391	7,811	4,974	4,833
Utah	12,884	68,310	12,307	9,025	4,602	1,668	1,574
Vermont	742	3,933	570	420	175	84	72
Virginia	18,373	NA	14,102	8,730	3,401	1,636	1,519
Washington	13,272	83,000	13,065	9,984	6,078	2,605	1,567
West Virginia	5,079	NA	4,043	3,158	1,321	350	299
Wisconsin	28,737	142,766	20,150	18,426	8,674	2,914	2,309
Wyoming	2,224	14,604	2,685	1,712	953	282	226
Total	950,378	4,973,983	762,819	595,468	254,554	112,072	99,325

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2017-2019

(million cubic feet) – continued

State	2018						
	July	June	May	April	March	February	January
Alabama	682	732	1,127	2,525	3,762	3,781	9,635
Alaska	500	672	1,031	1,481	2,217	2,618	2,705
Arizona	1,120	1,326	1,729	2,402	4,675	5,213	5,801
Arkansas	501	626	931	2,509	4,139	4,958	7,731
California	19,967	22,008	27,006	32,336	53,606	55,061	58,044
Colorado	2,611	2,738	5,767	10,144	14,335	20,333	22,095
Connecticut	1,066	1,325	1,965	5,285	7,422	6,900	10,580
Delaware	166	185	345	1,091	1,944	1,533	NA
District of Columbia	266	253	358	943	1,830	1,720	2,532
Florida	811	984	1,146	1,564	1,732	2,038	3,084
Georgia	3,917	3,984	4,710	8,852	15,677	12,223	30,637
Hawaii	46	50	49	52	52	51	58
Idaho	548	656	801	1,876	3,174	4,018	4,191
Illinois	7,470	8,923	12,347	43,614	54,873	64,644	84,051
Indiana	2,203	2,006	3,676	13,606	19,900	19,981	29,508
Iowa	934	1,157	1,788	6,942	8,491	11,176	13,877
Kansas	1,062	1,371	1,739	6,017	7,368	11,405	13,921
Kentucky	696	755	1,214	4,207	6,877	6,626	12,026
Louisiana	1,210	1,245	1,579	2,436	3,112	4,179	10,485
Maine	49	74	114	271	386	403	581
Maryland	1,568	1,870	NA	7,407	13,780	11,424	17,860
Massachusetts	2,482	2,830	4,480	12,311	18,621	21,038	25,513
Michigan	5,269	5,752	9,052	34,058	46,850	45,396	62,334
Minnesota	2,218	2,930	NA	13,499	17,200	23,096	26,700
Mississippi	513	498	680	1,573	2,284	2,613	7,110
Missouri	1,666	1,787	2,294	10,125	13,547	16,785	24,661
Montana	357	550	854	1,861	NA	3,510	3,568
Nebraska	768	791	1,546	4,220	5,060	7,121	8,255
Nevada	1,234	1,583	1,967	2,839	5,622	6,015	6,537
New Hampshire	136	172	227	731	1,089	998	1,557
New Jersey	4,764	5,911	7,617	22,887	36,896	30,408	49,292
New Mexico	814	809	1,130	2,088	4,537	4,758	6,414
New York	10,830	12,261	18,783	47,627	67,187	63,551	89,778
North Carolina	937	1,152	1,326	4,561	11,140	7,984	19,084
North Dakota	170	255	650	1,340	NA	2,132	2,285
Ohio	4,674	4,586	5,877	29,426	42,110	38,429	58,768
Oklahoma	1,046	1,145	1,663	5,430	6,380	11,560	14,467
Oregon	948	1,303	1,523	3,495	5,426	6,356	6,253
Pennsylvania	4,179	4,554	6,551	23,138	38,942	33,318	52,469
Rhode Island	372	413	459	1,888	2,925	2,433	3,986
South Carolina	476	503	727	1,928	3,931	3,278	8,789
South Dakota	205	247	617	1,415	NA	2,254	2,552
Tennessee	1,085	1,194	2,176	5,976	8,263	9,597	19,458
Texas	4,693	5,206	7,939	12,998	23,771	33,600	NA
Utah	1,616	2,057	2,342	4,522	9,459	8,505	10,634
Vermont	80	109	179	423	516	561	744
Virginia	1,674	1,562	2,274	6,645	13,630	11,173	NA
Washington	2,002	2,424	2,812	7,275	11,037	11,997	12,154
West Virginia	332	388	NA	2,457	4,273	3,671	5,563
Wisconsin	2,297	2,626	3,977	14,904	18,237	22,356	25,896
Wyoming	241	352	672	1,365	1,904	2,064	2,150
Total	105,470	118,892	167,909	438,565	656,263	686,844	975,802

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017						
	Total	December	November	October	September	August	July
Alabama	26,430	6,211	2,650	1,193	741	656	679
Alaska	20,247	2,525	2,613	1,579	892	601	551
Arizona	32,821	4,272	2,133	1,502	1,145	1,011	1,101
Arkansas	25,704	5,713	2,542	931	586	553	570
California	431,005	62,531	33,949	23,669	17,774	18,026	19,092
Colorado	118,582	21,054	12,514	8,690	3,557	2,841	2,657
Connecticut	48,431	8,288	4,790	1,430	1,091	1,025	1,075
Delaware	9,896	2,007	953	249	172	158	151
District of Columbia	11,904	2,383	934	410	299	287	293
Florida	14,934	1,816	1,226	924	823	751	778
Georgia	111,248	22,315	12,094	6,722	4,105	4,049	3,940
Hawaii	572	50	47	43	44	42	43
Idaho	28,799	5,273	3,069	2,147	836	530	518
Illinois	377,511	69,482	44,367	17,811	8,054	8,084	8,664
Indiana	123,847	26,461	14,435	5,553	2,498	2,016	2,096
Iowa	60,362	11,284	6,654	2,952	1,127	1,105	1,028
Kansas	54,445	10,772	6,674	2,239	1,166	1,063	1,009
Kentucky	43,253	9,945	5,305	2,019	975	784	719
Louisiana	29,060	6,251	2,659	1,536	1,221	1,207	1,231
Maine	2,748	520	264	85	58	54	52
Maryland	75,789	15,141	8,718	2,426	1,732	1,326	1,651
Massachusetts	121,181	22,904	12,151	4,115	2,694	2,497	2,608
Michigan	299,158	58,028	37,037	14,512	7,041	5,408	5,123
Minnesota	123,898	22,061	15,032	6,526	2,556	2,510	2,276
Mississippi	18,446	4,142	1,988	882	622	553	518
Missouri	86,865	19,244	10,363	2,311	1,794	1,678	1,597
Montana	21,481	3,627	2,535	1,587	637	349	343
Nebraska	34,069	5,967	3,973	1,404	619	434	673
Nevada	40,911	6,316	2,973	2,035	1,476	1,153	1,310
New Hampshire	7,331	1,428	787	257	155	158	137
New Jersey	221,608	43,095	21,617	8,807	4,338	4,288	4,857
New Mexico	29,993	5,444	2,871	1,517	866	818	839
New York	432,451	75,715	42,655	15,453	10,954	10,216	10,730
North Carolina	59,933	14,460	8,039	2,110	1,096	993	1,135
North Dakota	11,015	1,938	1,388	669	235	177	155
Ohio	258,699	53,080	30,997	12,214	5,675	5,045	4,714
Oklahoma	51,069	11,996	4,925	1,511	1,260	1,298	1,172
Oregon	47,841	8,213	5,325	3,149	1,191	778	866
Pennsylvania	218,719	42,298	22,852	7,875	4,601	3,878	4,196
Rhode Island	18,421	3,485	2,051	628	386	407	414
South Carolina	24,558	5,845	2,976	835	541	482	559
South Dakota	12,146	2,176	1,283	684	244	221	195
Tennessee	56,661	14,083	6,831	1,899	1,253	983	1,008
Texas	164,140	25,645	13,224	7,772	5,888	5,438	6,003
Utah	66,700	13,023	6,973	4,527	1,821	1,471	1,680
Vermont	3,509	587	301	111	87	78	82
Virginia	76,904	16,077	8,094	2,857	1,690	1,587	1,657
Washington	91,028	14,960	10,582	6,464	2,441	1,749	1,802
West Virginia	22,385	4,473	2,611	1,014	485	304	356
Wisconsin	131,018	25,210	15,334	6,281	2,739	2,503	2,306
Wyoming	12,553	1,801	1,281	951	266	212	211
Total	4,412,282	821,617	467,638	205,068	114,548	103,832	107,423

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017					
	June	May	April	March	February	January
Alabama	716	928	1,366	3,187	3,240	4,864
Alaska	656	983	1,472	2,666	2,521	3,189
Arizona	1,324	1,781	2,358	3,702	5,836	6,656
Arkansas	621	952	1,168	2,951	3,376	5,740
California	20,885	27,252	29,707	40,608	53,982	83,530
Colorado	2,955	6,264	8,839	11,822	14,666	22,721
Connecticut	1,380	2,231	3,529	7,844	7,199	8,549
Delaware	207	350	612	1,689	1,397	1,951
District of Columbia	340	518	616	1,796	1,679	2,348
Florida	880	1,060	1,392	1,600	1,725	1,958
Georgia	4,108	4,938	5,707	12,818	12,389	18,065
Hawaii	49	44	49	52	52	58
Idaho	599	1,114	2,016	2,669	3,829	6,199
Illinois	9,174	16,968	23,288	52,091	47,489	72,039
Indiana	2,415	5,288	7,075	17,157	15,348	23,505
Iowa	1,276	2,437	4,047	8,061	8,381	12,010
Kansas	1,228	1,776	3,063	6,451	6,663	12,341
Kentucky	777	1,188	2,032	5,648	5,597	8,265
Louisiana	1,287	1,429	1,705	2,699	2,906	4,928
Maine	76	135	235	426	395	447
Maryland	1,789	2,993	3,402	11,443	11,029	14,139
Massachusetts	3,299	5,950	8,696	20,221	16,531	19,515
Michigan	6,056	13,698	18,830	42,976	38,428	52,022
Minnesota	2,997	5,044	8,308	16,657	16,507	23,423
Mississippi	526	728	807	2,153	2,110	3,417
Missouri	1,904	3,319	4,432	10,298	10,986	18,940
Montana	474	902	1,608	2,231	2,978	4,211
Nebraska	857	1,512	2,231	4,156	4,681	7,563
Nevada	1,600	2,022	2,794	4,396	6,256	8,578
New Hampshire	176	338	478	1,184	999	1,235
New Jersey	6,185	9,355	14,797	34,080	30,427	39,764
New Mexico	951	1,409	2,085	2,973	4,196	6,024
New York	13,856	20,615	30,903	68,055	60,346	72,953
North Carolina	1,039	1,514	2,309	8,165	7,129	11,944
North Dakota	190	347	737	1,475	1,577	2,126
Ohio	5,339	9,994	13,998	37,454	33,242	46,946
Oklahoma	1,300	1,878	2,737	4,756	6,446	11,789
Oregon	1,330	2,147	3,766	5,136	6,406	9,534
Pennsylvania	5,099	9,495	13,739	33,755	30,971	39,961
Rhode Island	462	798	1,192	3,126	2,513	2,961
South Carolina	526	657	1,177	3,265	2,916	4,779
South Dakota	265	482	905	1,538	1,668	2,485
Tennessee	1,168	1,721	2,363	6,888	7,217	11,248
Texas	5,823	7,749	9,413	16,020	22,128	39,036
Utah	2,227	2,890	4,976	5,704	7,427	13,980
Vermont	131	187	311	570	507	556
Virginia	1,797	2,501	3,795	11,067	10,403	15,380
Washington	2,226	4,046	7,034	10,426	12,453	16,844
West Virginia	325	758	1,371	3,489	3,117	4,081
Wisconsin	2,795	5,967	8,439	18,653	17,252	23,539
Wyoming	372	796	1,001	1,520	1,797	2,344
Total	124,038	199,451	278,910	579,768	579,313	830,679

^R Revised data.^{NA} Not available.**Notes:** Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.**Source:** U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 15. Natural gas deliveries to commercial consumers, by state, 2017-2019

(million cubic feet)

State	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Alabama	NA	13,563	9,849	NA	1,486	2,756	2,266
Alaska	NA	7,710	8,259	NA	NA	NA	NA
Arizona	18,757	NA	15,188	2,661	2,876	3,865	4,465
Arkansas	NA	26,732	21,779	3,465	4,046	NA	6,099
California	118,492	111,141	105,837	18,890	17,642	23,741	30,700
Colorado	35,000	30,790	27,973	3,695	4,517	8,401	8,678
Connecticut	30,818	30,114	27,411	3,110	4,187	7,090	7,479
Delaware	8,043	NA	6,553	835	915	1,886	1,932
District of Columbia	8,348	NA	7,663	838	992	1,923	2,155
Florida	28,239	28,781	27,330	4,930	5,267	5,716	5,737
Georgia	28,360	29,281	23,285	2,475	3,342	6,296	6,277
Hawaii	1,104	1,087	1,031	221	221	216	210
Idaho	10,094	9,170	10,334	961	1,310	2,162	2,736
Illinois	137,087	134,121	111,927	12,210	18,502	31,313	34,519
Indiana	49,209	48,384	38,378	3,271	5,289	11,738	12,752
Iowa	31,494	30,912	25,690	2,393	3,742	7,150	8,532
Kansas	21,029	21,097	17,007	1,928	1,904	4,683	6,193
Kentucky	20,234	21,364	16,077	1,370	1,932	4,874	5,222
Louisiana	15,117	14,342	12,124	2,097	2,381	3,209	2,903
Maine	5,682	5,217	4,902	551	809	1,250	1,434
Maryland	38,448	NA	36,536	4,026	4,540	9,289	9,120
Massachusetts	65,008	64,502	58,253	6,070	8,788	14,234	16,250
Michigan	108,177	106,794	88,647	9,904	14,792	25,363	27,868
Minnesota	65,404	64,890	54,458	5,020	9,080	14,738	18,121
Mississippi	9,667	9,966	7,942	883	1,218	2,188	R2,128
Missouri	38,350	39,076	29,965	2,946	4,080	8,696	10,638
Montana	NA	14,053	12,405	NA	2,037	3,458	4,280
Nebraska	19,613	19,121	15,870	1,854	2,198	4,409	5,690
Nevada	17,332	15,717	15,927	2,303	2,557	3,701	4,272
New Hampshire	5,929	5,529	5,039	460	739	1,326	1,513
New Jersey	83,531	91,103	79,112	7,225	10,678	19,184	21,797
New Mexico	13,855	12,466	11,221	1,510	1,711	2,683	3,496
New York	171,596	166,620	158,055	16,977	23,091	39,447	40,304
North Carolina	28,712	32,026	24,997	2,555	3,346	6,623	6,503
North Dakota	9,549	NA	7,035	738	1,146	2,106	2,830
Ohio	102,381	97,738	80,995	7,439	12,345	24,455	25,496
Oklahoma	26,992	25,737	19,198	2,187	2,928	6,144	7,367
Oregon	17,324	NA	17,433	1,510	2,389	3,954	4,974
Pennsylvania	94,458	93,906	78,942	7,182	10,472	21,458	23,395
Rhode Island	7,349	7,086	6,509	551	920	1,733	1,844
South Carolina	12,002	12,458	10,409	1,492	1,701	2,630	2,439
South Dakota	7,599	NA	5,855	632	975	1,665	2,216
Tennessee	29,526	NA	22,568	2,463	3,151	6,758	6,602
Texas	99,151	94,516	78,193	11,798	R16,187	R21,796	R23,384
Utah	NA	NA	20,937	NA	2,509	5,162	6,444
Vermont	3,648	3,343	2,974	317	492	811	900
Virginia	38,317	NA	33,434	3,533	4,461	8,603	9,468
Washington	30,817	29,124	31,768	3,066	4,526	6,741	8,563
West Virginia	12,445	13,309	11,135	1,176	1,629	3,040	2,890
Wisconsin	57,045	55,538	48,332	4,865	7,701	12,959	14,661
Wyoming	7,999	8,682	8,041	931	1,255	1,849	2,023
Total	1,876,717	1,842,482	1,600,780	184,739	R246,227	R423,214	R469,906

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2019						2018
	January	Total	December	November	October	September	August
Alabama	4,795	27,209	3,743	3,610	1,748	1,096	1,189
Alaska	NA	NA	NA	1,503	988	633	556
Arizona	4,891	NA	4,424	3,363	2,385	2,006	2,073
Arkansas	7,398	54,112	6,406	5,530	3,999	2,957	2,994
California	27,518	248,307	28,661	23,120	20,397	16,883	16,418
Colorado	9,710	57,793	9,582	6,748	4,034	1,704	1,676
Connecticut	8,951	58,655	7,377	6,390	4,237	2,698	2,792
Delaware	2,475	NA	2,004	NA	1,239	786	776
District of Columbia	2,440	NA	1,964	1,733	1,239	654	857
Florida	6,590	63,260	6,166	5,180	4,639	4,630	4,487
Georgia	9,969	56,285	8,446	6,882	3,113	2,105	2,162
Hawaii	237	2,602	217	212	220	205	226
Idaho	2,925	18,860	2,880	2,183	1,479	925	765
Illinois	40,543	242,293	30,946	26,594	15,989	8,860	8,663
Indiana	16,158	86,031	11,711	10,292	5,996	2,823	2,313
Iowa	9,677	55,779	7,374	6,661	3,883	1,764	1,720
Kansas	6,321	41,287	5,869	4,415	2,832	1,802	1,881
Kentucky	6,836	37,923	5,103	4,708	2,419	1,214	1,083
Louisiana	4,527	32,448	3,639	3,857	2,610	2,195	2,029
Maine	1,638	NA	1,379	1,177	678	327	NA
Maryland	11,473	NA	9,219	8,075	6,085	3,534	3,654
Massachusetts	19,666	116,485	15,213	14,072	6,729	4,353	4,020
Michigan	30,249	185,911	25,933	20,117	11,323	5,047	5,936
Minnesota	18,443	112,006	15,185	12,151	7,490	3,309	2,869
Mississippi	3,251	19,782	2,591	2,327	1,361	872	942
Missouri	11,990	68,931	9,406	7,848	3,962	2,284	2,136
Montana	3,523	25,695	3,459	2,760	1,818	1,144	907
Nebraska	5,462	34,633	4,634	3,785	2,226	1,238	1,124
Nevada	4,499	32,467	4,126	3,161	2,268	1,856	1,717
New Hampshire	1,890	9,702	1,495	1,260	432	278	238
New Jersey	24,647	160,474	21,505	15,957	8,425	5,437	5,952
New Mexico	4,455	NA	NA	3,568	2,233	1,069	1,163
New York	51,777	325,099	39,678	36,464	23,058	15,264	14,844
North Carolina	9,684	59,412	7,706	6,840	4,052	2,379	2,190
North Dakota	2,729	NA	2,224	2,006	1,217	369	343
Ohio	32,647	174,256	23,821	21,310	11,423	5,183	5,065
Oklahoma	8,366	46,914	7,063	5,386	2,487	1,612	1,581
Oregon	4,498	NA	4,427	3,255	1,970	1,187	1,000
Pennsylvania	31,950	166,747	22,183	18,836	11,110	5,447	5,213
Rhode Island	2,301	12,252	1,832	1,416	783	298	276
South Carolina	3,741	25,308	2,910	2,925	1,918	1,219	1,290
South Dakota	2,111	NA	1,812	1,410	860	334	295
Tennessee	10,551	NA	8,117	6,675	3,514	2,271	2,063
Texas	25,987	186,550	21,919	19,242	12,074	10,369	10,022
Utah	7,209	NA	7,086	5,224	3,052	1,356	1,222
Vermont	1,129	7,283	984	890	620	388	360
Virginia	12,251	NA	9,357	7,070	5,385	3,286	3,250
Washington	7,922	56,728	7,634	6,009	4,230	2,567	2,294
West Virginia	3,710	24,832	3,096	2,737	1,619	995	1,052
Wisconsin	16,860	98,482	13,186	11,636	6,388	3,161	2,842
Wyoming	1,940	15,339	2,352	1,584	951	444	381
Total	552,630	3,476,281	454,953	381,851	235,183	144,817	141,176

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2018						
	July	June	May	April	March	February	January
Alabama	1,134	1,126	1,168	1,946	2,874	2,238	5,337
Alaska	436	590	816	1,192	1,731	1,959	2,012
Arizona	2,128	NA	NA	NA	NA	NA	NA
Arkansas	2,754	2,740	3,002	4,298	5,509	6,018	7,906
California	15,526	16,161	17,545	18,752	25,318	24,191	25,335
Colorado	1,547	1,712	2,697	4,486	6,143	8,368	9,096
Connecticut	2,594	2,452	2,635	5,299	6,834	6,535	8,812
Delaware	697	693	700	1,224	NA	1,721	NA
District of Columbia	727	824	642	1,195	1,894	1,759	NA
Florida	4,537	4,840	5,031	5,394	5,942	5,452	6,961
Georgia	2,153	2,142	2,438	3,966	6,379	5,094	11,403
Hawaii	223	212	209	216	214	203	243
Idaho	705	753	799	1,304	2,058	2,417	2,592
Illinois	8,614	8,506	10,265	23,102	28,329	32,997	39,428
Indiana	2,295	2,217	3,089	7,537	10,808	11,022	15,928
Iowa	1,620	1,846	2,244	5,094	6,280	7,778	9,516
Kansas	1,678	1,714	1,779	3,614	3,885	5,416	6,403
Kentucky	1,020	1,012	1,347	3,000	4,647	4,620	7,751
Louisiana	1,890	1,885	2,006	2,472	2,762	2,460	4,643
Maine	NA	328	418	843	1,170	1,183	1,603
Maryland	3,416	3,937	NA	6,514	9,836	8,352	11,420
Massachusetts	3,633	3,964	4,262	10,187	14,962	16,673	18,417
Michigan	5,325	5,435	8,645	18,479	24,178	24,556	30,937
Minnesota	2,892	3,219	4,689	10,913	13,400	17,365	18,524
Mississippi	859	864	925	1,396	1,805	1,861	3,978
Missouri	2,083	2,137	2,605	6,133	8,054	9,882	12,402
Montana	731	824	1,215	2,301	3,266	3,671	3,600
Nebraska	1,255	1,251	1,689	3,199	3,760	4,999	5,474
Nevada	1,723	1,899	2,198	2,569	3,595	3,593	3,762
New Hampshire	213	256	291	858	1,312	1,216	1,853
New Jersey	6,036	6,060	6,819	16,093	21,624	19,869	26,697
New Mexico	847	1,057	1,215	1,486	2,934	2,778	4,053
New York	14,812	14,359	14,732	28,745	38,731	36,591	47,822
North Carolina	2,149	2,069	2,391	4,746	8,010	5,992	10,887
North Dakota	311	394	NA	1,505	NA	2,273	2,223
Ohio	4,709	5,007	4,823	16,057	23,485	21,655	31,718
Oklahoma	1,465	1,582	1,832	3,724	4,474	7,183	8,523
Oregon	976	1,264	1,370	2,389	3,507	NA	3,982
Pennsylvania	4,920	5,133	5,367	14,353	24,385	20,019	29,783
Rhode Island	281	280	303	1,142	1,818	1,522	2,301
South Carolina	1,259	1,330	1,472	1,734	3,033	2,262	3,955
South Dakota	299	345	NA	1,232	NA	1,865	2,017
Tennessee	2,241	2,412	2,604	4,592	NA	6,275	11,305
Texas	8,963	9,446	11,724	13,691	19,350	21,089	28,663
Utah	1,284	1,483	NA	2,899	5,701	5,142	6,169
Vermont	349	349	259	617	775	703	988
Virginia	3,407	2,969	3,226	5,362	10,119	7,796	NA
Washington	2,162	2,708	2,847	4,556	7,057	7,207	7,457
West Virginia	989	1,035	1,121	2,204	3,234	2,828	3,923
Wisconsin	2,852	2,879	3,930	9,736	11,510	13,839	16,523
Wyoming	411	534	872	1,497	2,032	2,087	2,195
Total	135,406	140,413	161,814	298,537	414,033	420,103	547,995

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017						
	Total	December	November	October	September	August	July
Alabama	22,790	3,908	2,589	1,985	1,232	1,107	1,047
Alaska	15,544	1,977	1,831	1,189	709	550	500
Arizona	31,212	3,684	2,552	2,167	1,916	1,874	1,864
Arkansas	47,501	6,407	4,356	3,686	2,919	2,899	2,706
California	237,360	28,185	21,739	19,392	16,064	16,197	15,166
Colorado	52,739	8,626	5,385	3,780	1,881	1,714	1,639
Connecticut	52,513	7,412	5,236	2,796	2,489	2,419	2,437
Delaware	13,364	2,226	1,464	836	652	573	499
District of Columbia	16,040	2,671	1,383	1,001	815	825	835
Florida	61,313	6,030	5,267	4,855	4,393	4,398	4,394
Georgia	49,193	8,539	5,224	3,324	2,231	2,211	2,164
Hawaii	2,446	203	204	200	198	202	194
Idaho	19,777	2,925	1,924	1,494	943	732	704
Illinois	215,936	35,932	22,257	13,695	8,818	8,054	7,691
Indiana	75,312	13,712	8,404	4,996	2,765	2,390	2,231
Iowa	49,710	7,870	5,820	3,597	1,803	1,580	1,598
Kansas	34,483	5,286	3,308	2,314	1,683	1,743	1,578
Kentucky	32,796	6,258	3,761	2,045	1,378	1,136	1,042
Louisiana	28,316	3,929	2,647	2,199	1,795	1,907	1,790
Maine	8,925	1,518	939	382	299	290	289
Maryland	72,279	11,519	7,306	3,850	3,237	3,264	3,541
Massachusetts	109,470	17,939	11,692	5,467	4,243	4,076	3,832
Michigan	162,634	26,445	16,897	8,273	5,952	5,409	5,045
Minnesota	99,756	16,759	11,138	5,491	3,066	2,867	2,860
Mississippi	17,643	2,697	1,758	1,460	1,011	979	893
Missouri	57,903	10,275	5,864	2,812	2,361	2,290	2,089
Montana	23,374	3,524	2,643	1,683	1,010	685	670
Nebraska	29,018	4,384	3,033	1,689	1,006	807	1,037
Nevada	32,200	4,043	2,658	2,300	1,902	1,704	1,758
New Hampshire	9,078	1,685	1,034	388	244	256	192
New Jersey	148,948	24,082	13,261	8,960	6,624	4,874	5,572
New Mexico	23,624	3,967	2,294	1,845	1,131	1,120	1,048
New York	310,211	45,947	31,356	16,690	14,701	14,852	14,113
North Carolina	53,726	8,507	5,821	3,906	2,763	2,709	2,628
North Dakota	12,957	2,013	1,594	875	461	352	307
Ohio	156,979	28,898	17,574	9,170	5,506	5,112	4,685
Oklahoma	37,834	6,832	3,547	2,110	1,581	1,566	1,449
Oregon	31,763	4,918	3,172	2,158	1,147	851	890
Pennsylvania	145,910	22,264	17,272	7,825	4,993	4,725	4,818
Rhode Island	11,338	2,161	1,154	447	252	256	262
South Carolina	22,923	3,089	2,362	1,783	1,314	1,301	1,393
South Dakota	10,813	1,755	1,180	705	367	308	302
Tennessee	49,042	8,865	5,610	3,317	2,387	2,120	2,051
Texas	164,797	19,301	13,913	12,127	10,270	10,389	10,427
Utah	41,264	7,489	4,406	2,792	1,435	1,197	1,281
Vermont	6,205	932	752	401	342	317	292
Virginia	68,162	10,474	6,914	4,272	3,449	3,280	3,354
Washington	60,096	8,465	6,198	4,296	2,513	2,171	2,222
West Virginia	22,421	3,529	2,283	1,387	1,080	1,021	968
Wisconsin	90,470	14,817	10,017	5,179	3,025	3,147	2,883
Wyoming	13,972	1,818	1,320	1,021	443	401	408
Total	3,164,078	486,690	322,309	200,614	144,797	137,208	133,637

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017					
	June	May	April	March	February	January
Alabama	1,074	1,273	1,204	2,288	2,075	3,009
Alaska	530	855	1,153	2,052	1,857	2,342
Arizona	1,968	2,287	2,538	2,946	3,408	4,008
Arkansas	2,749	3,088	3,108	4,498	4,630	6,454
California	14,780	16,236	17,263	19,968	22,408	29,963
Colorado	1,741	3,068	4,041	5,210	6,209	9,446
Connecticut	2,313	2,732	3,818	7,026	6,332	7,504
Delaware	561	721	751	1,693	1,504	1,885
District of Columbia	847	1,009	1,088	1,826	1,613	2,127
Florida	4,646	4,880	5,290	5,716	5,344	6,099
Georgia	2,215	2,593	2,817	5,420	5,191	7,263
Hawaii	214	192	201	211	200	226
Idaho	719	959	1,350	1,765	2,492	3,769
Illinois	7,562	12,632	13,522	25,919	24,486	35,368
Indiana	2,437	3,621	4,419	9,268	8,353	12,716
Iowa	1,753	2,283	3,277	5,799	6,003	8,329
Kansas	1,565	1,770	2,536	3,442	3,454	5,805
Kentucky	1,100	1,337	1,660	3,883	3,815	5,382
Louisiana	1,925	2,024	2,057	2,588	2,287	3,168
Maine	306	462	695	1,291	1,150	1,304
Maryland	3,025	4,215	4,284	9,628	8,036	10,372
Massachusetts	3,968	5,859	7,397	16,154	13,289	15,554
Michigan	5,966	8,793	11,198	21,859	20,749	26,049
Minnesota	3,117	4,853	7,465	12,305	12,893	16,943
Mississippi	903	1,101	987	1,776	1,704	2,374
Missouri	2,248	2,850	3,317	6,534	6,673	10,591
Montana	753	1,095	1,711	2,475	3,028	4,096
Nebraska	1,192	1,500	2,067	3,233	3,688	5,382
Nevada	1,908	2,189	2,596	3,089	3,525	4,528
New Hampshire	239	425	564	1,439	1,165	1,446
New Jersey	6,462	8,134	9,270	20,983	18,252	22,474
New Mexico	997	1,259	1,696	1,932	2,446	3,888
New York	14,499	17,995	21,285	40,877	36,302	41,596
North Carolina	2,394	3,008	2,997	6,205	5,153	7,633
North Dakota	320	489	892	1,644	1,703	2,307
Ohio	5,040	7,188	8,459	20,894	18,787	25,666
Oklahoma	1,551	1,872	2,355	3,479	4,396	7,097
Oregon	1,195	1,674	2,466	3,318	4,110	5,864
Pennsylvania	5,072	7,328	9,184	20,573	18,873	22,984
Rhode Island	297	536	749	1,883	1,501	1,840
South Carolina	1,273	1,513	1,488	2,489	2,105	2,814
South Dakota	341	488	756	1,294	1,344	1,973
Tennessee	2,123	2,559	2,506	5,230	5,140	7,133
Texas	10,176	11,204	12,125	14,586	16,435	23,843
Utah	1,727	1,958	3,171	3,419	4,609	7,780
Vermont	194	332	375	774	678	814
Virginia	2,985	3,875	4,071	8,574	7,248	9,667
Washington	2,464	3,505	4,786	6,434	7,492	9,551
West Virginia	1,018	1,219	1,558	2,754	2,535	3,069
Wisconsin	3,068	4,498	6,319	11,248	10,879	15,389
Wyoming	519	938	1,098	1,714	1,885	2,406
Total	138,042	178,475	211,980	371,604	359,433	479,288

^R Revised data.^{NA} Not available.**Notes:** Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.**Source:** U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 16. Natural gas deliveries to industrial consumers, by state, 2017-2019

(million cubic feet)

State	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Alabama	89,650	85,796	82,910	17,261	16,691	18,483	17,180
Alaska	2,595	2,243	2,220	404	414	577	555
Arizona	9,220	8,735	8,740	1,664	1,609	1,748	1,987
Arkansas	46,283	NA	42,415	8,883	8,615	9,620	8,988
California	299,957	308,064	306,839	61,931	57,521	61,442	55,601
Colorado	43,668	40,831	39,759	7,398	7,440	9,034	9,580
Connecticut	10,908	11,154	11,098	1,714	1,801	2,263	2,357
Delaware	16,289	NA	12,051	2,963	2,788	3,261	3,264
District of Columbia	0	0	0	0	0	0	0
Florida	NA	45,661	44,307	10,403	NA	NA	9,237
Georgia	66,238	65,915	63,749	12,642	12,565	13,838	12,445
Hawaii	37	38	36	8	8	7	7
Idaho	16,204	14,898	15,906	2,713	2,820	3,378	3,434
Illinois	122,523	116,286	113,125	20,536	20,339	25,523	25,626
Indiana	192,366	NA	164,063	34,943	36,327	41,289	37,213
Iowa	108,053	105,724	101,661	21,113	19,742	22,277	21,850
Kansas	NA	56,464	50,679	9,117	NA	10,932	12,137
Kentucky	53,581	53,248	49,933	8,918	9,719	11,840	10,429
Louisiana	485,557	NA	444,880	99,456	95,452	96,524	93,250
Maine	9,317	7,860	7,638	1,595	1,744	1,964	1,907
Maryland	7,095	NA	6,580	1,041	1,453	1,549	1,384
Massachusetts	25,946	24,765	24,001	3,893	4,351	5,379	6,194
Michigan	85,480	NA	77,375	13,447	14,811	19,109	17,356
Minnesota	73,931	72,328	72,731	12,489	13,849	15,138	15,714
Mississippi	55,875	58,164	53,643	11,210	11,605	11,561	10,261
Missouri	29,503	29,808	28,033	4,532	4,942	5,997	6,627
Montana	9,613	10,332	7,996	1,744	1,732	1,900	2,084
Nebraska	34,983	36,469	37,607	7,116	6,247	6,577	7,272
Nevada	NA	8,512	8,008	1,553	1,604	1,736	NA
New Hampshire	4,555	4,583	4,324	814	877	962	960
New Jersey	19,019	NA	24,472	3,431	3,039	4,298	4,095
New Mexico	7,887	7,344	6,334	1,557	1,518	1,689	1,530
New York	42,021	41,365	36,136	6,280	7,417	9,072	9,344
North Carolina	53,486	NA	44,520	9,277	9,812	11,719	10,511
North Dakota	15,605	14,492	14,079	3,216	3,112	3,228	2,810
Ohio	128,101	131,474	124,818	20,490	22,527	27,745	26,984
Oklahoma	89,864	89,564	84,584	18,172	17,606	19,136	16,111
Oregon	24,223	23,756	25,730	4,430	4,747	5,009	4,828
Pennsylvania	NA	101,817	95,318	16,919	18,646	NA	NA
Rhode Island	3,952	3,962	3,778	712	763	794	848
South Carolina	41,606	NA	38,139	7,614	7,893	8,900	8,285
South Dakota	19,864	NA	19,355	3,571	3,668	4,061	4,311
Tennessee	65,984	NA	57,982	11,443	12,232	13,900	13,467
Texas	729,591	738,227	683,335	140,398	139,263	149,067	141,675
Utah	18,448	17,767	17,706	3,328	3,624	3,515	4,008
Vermont	NA	1,014	957	188	197	233	229
Virginia	NA	39,875	40,435	7,971	7,799	NA	8,911
Washington	33,599	NA	34,389	6,313	6,186	7,076	6,754
West Virginia	NA	14,626	16,019	3,103	2,890	NA	3,105
Wisconsin	76,470	77,291	68,637	11,865	13,202	16,629	16,850
Wyoming	NA	27,226	23,626	4,747	NA	5,102	5,583
Total	3,574,467	3,534,029	3,342,656	666,526	666,613	740,289	710,003

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2019						2018
	January	Total	December	November	October	September	August
Alabama	20,035	204,912	19,164	18,564	17,466	15,830	16,032
Alaska	646	5,639	594	609	495	508	412
Arizona	2,212	20,156	2,042	1,900	1,677	1,417	1,503
Arkansas	10,176	NA	9,948	10,033	9,049	8,243	8,613
California	63,461	761,086	63,880	61,063	62,404	67,764	69,997
Colorado	10,216	88,809	9,840	8,869	7,379	5,697	5,466
Connecticut	2,772	24,853	2,433	2,246	1,947	1,767	1,824
Delaware	4,014	NA	3,135	NA	2,796	2,149	2,218
District of Columbia	0	0	0	0	0	0	0
Florida	10,811	108,984	10,355	9,559	8,978	8,627	8,884
Georgia	14,748	158,301	14,347	14,099	12,920	12,205	13,172
Hawaii	8	90	7	7	8	7	8
Idaho	3,859	34,800	3,562	3,477	3,351	2,652	2,332
Illinois	30,499	263,012	26,043	26,066	22,978	18,707	18,341
Indiana	42,595	NA	39,877	37,604	NA	29,188	31,836
Iowa	23,071	249,869	21,781	22,747	21,473	19,143	20,360
Kansas	12,903	129,468	12,031	11,309	9,098	9,054	10,328
Kentucky	12,674	117,081	11,380	11,009	9,302	7,896	8,300
Louisiana	100,875	NA	97,645	93,510	92,332	93,857	94,130
Maine	2,107	19,189	1,993	1,847	1,801	1,596	1,457
Maryland	1,669	NA	1,855	1,951	1,431	1,249	1,275
Massachusetts	6,129	48,248	5,246	4,097	3,623	2,537	2,548
Michigan	20,758	NA	17,943	17,891	14,884	11,953	11,431
Minnesota	16,741	160,133	16,384	15,353	11,824	10,824	11,144
Mississippi	11,239	135,699	11,300	11,492	11,127	10,884	11,087
Missouri	7,404	65,989	6,492	6,581	5,335	4,427	4,628
Montana	2,153	25,211	2,234	2,257	2,166	2,047	2,011
Nebraska	7,771	87,294	7,495	7,981	7,801	6,888	6,611
Nevada	1,679	20,149	1,693	1,579	1,624	1,640	1,738
New Hampshire	942	9,886	904	873	778	694	679
New Jersey	4,156	NA	NA	NA	NA	NA	3,431
New Mexico	1,593	17,385	1,191	1,583	1,558	1,421	1,414
New York	9,908	NA	8,754	8,854	7,804	6,247	6,342
North Carolina	12,166	NA	11,103	10,805	9,903	8,026	9,102
North Dakota	3,238	35,609	3,473	2,871	3,240	3,024	2,887
Ohio	30,355	285,034	27,712	24,681	21,740	19,856	19,587
Oklahoma	18,838	208,738	18,111	17,389	18,371	17,297	16,622
Oregon	5,210	54,079	4,738	4,595	4,621	4,150	4,059
Pennsylvania	NA	229,992	21,817	20,283	18,660	16,554	17,134
Rhode Island	835	8,817	803	771	659	692	656
South Carolina	8,914	NA	8,810	8,955	8,452	6,986	7,707
South Dakota	4,253	NA	4,314	4,191	3,671	3,630	3,637
Tennessee	14,943	NA	13,234	NA	11,940	11,077	11,481
Texas	159,188	1,787,162	159,707	152,185	141,762	146,321	150,647
Utah	3,974	39,772	3,688	3,344	2,895	3,045	2,941
Vermont	NA	2,284	230	212	195	162	161
Virginia	8,394	NA	8,519	7,884	7,934	NA	6,586
Washington	7,271	NA	7,019	5,838	7,018	6,470	5,876
West Virginia	3,449	34,594	3,153	3,028	2,959	2,585	2,894
Wisconsin	17,924	166,885	16,606	15,972	13,666	11,038	11,176
Wyoming	6,814	65,759	6,242	6,344	6,012	5,370	5,195
Total	791,035	8,285,836	755,975	726,304	671,454	646,642	657,898

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2018						
	July	June	May	April	March	February	January
Alabama	16,027	16,033	16,618	16,632	17,536	16,146	18,864
Alaska	415	363	392	352	439	525	535
Arizona	1,427	1,454	1,581	1,633	1,788	1,766	1,966
Arkansas	7,861	7,618	8,164	8,862	9,051	8,829	NA
California	66,120	61,794	63,220	60,237	63,615	57,100	63,893
Colorado	5,394	5,332	6,156	7,498	8,209	9,232	9,736
Connecticut	1,785	1,696	1,614	1,905	2,520	2,340	2,776
Delaware	NA	NA	NA	NA	NA	NA	3,963
District of Columbia	0	0	0	0	0	0	0
Florida	8,589	8,332	8,780	9,002	9,867	7,889	10,123
Georgia	12,767	12,877	12,780	12,864	14,189	11,966	14,116
Hawaii	8	8	8	8	7	7	8
Idaho ^a	2,285	2,244	2,458	2,541	3,270	3,099	3,529
Illinois	17,863	16,728	17,685	21,568	24,356	23,803	28,874
Indiana	33,565	31,796	34,496	34,679	39,247	37,558	NA
Iowa	19,906	18,735	18,991	20,552	22,276	20,873	23,032
Kansas	11,250	9,934	10,272	10,951	11,204	11,183	12,855
Kentucky	8,112	7,834	8,648	9,996	11,328	10,924	12,352
Louisiana	94,629	95,929	96,531	91,519	93,184	90,394	NA
Maine	1,448	1,189	1,152	1,468	1,703	1,637	1,900
Maryland	1,352	1,118	1,482	NA	NA	NA	2,093
Massachusetts	2,551	2,881	3,157	4,917	5,288	5,315	6,089
Michigan	11,267	11,666	12,204	15,346	18,246	NA	19,443
Minnesota	11,401	10,875	11,979	13,598	14,896	15,299	16,557
Mississippi	10,490	11,155	11,533	11,955	11,777	10,772	12,126
Missouri	4,372	4,346	4,303	5,545	6,225	6,762	6,973
Montana	2,121	2,044	1,888	1,744	2,099	2,259	2,343
Nebraska	7,441	6,608	6,627	7,514	7,332	7,357	7,640
Nevada	1,828	1,534	1,518	1,646	1,851	1,675	1,823
New Hampshire	686	689	779	871	916	999	1,019
New Jersey	3,584	3,459	NA	NA	NA	NA	NA
New Mexico	1,424	1,449	1,603	1,422	1,506	1,314	1,498
New York	6,275	NA	5,842	8,231	8,806	8,834	9,652
North Carolina	8,717	8,773	8,942	9,817	11,028	9,460	NA
North Dakota	2,861	2,761	2,507	3,158	2,898	2,909	3,020
Ohio	19,531	20,453	21,812	24,820	27,130	27,015	30,698
Oklahoma	15,301	16,083	17,685	17,743	18,194	17,483	18,458
Oregon	3,986	4,174	4,314	4,572	5,035	4,610	5,225
Pennsylvania	17,002	16,727	17,706	20,183	21,739	19,444	22,745
Rhode Island	623	652	741	809	727	843	842
South Carolina	7,487	7,579	7,779	8,205	NA	7,598	7,463
South Dakota	3,530	3,576	3,591	NA	3,942	4,244	4,267
Tennessee	11,173	11,610	11,132	12,717	12,060	11,933	NA
Texas	153,149	145,163	150,337	147,085	149,515	134,557	156,733
Utah	2,941	3,152	3,223	3,449	3,361	3,797	3,937
Vermont	154	156	173	193	219	204	224
Virginia	7,762	NA	7,771	7,558	8,194	8,179	8,173
Washington	5,806	5,806	5,935	6,241	NA	7,560	7,651
West Virginia	2,840	2,508	2,502	2,590	2,917	3,082	3,535
Wisconsin	10,546	10,590	11,949	14,827	15,964	16,229	18,322
Wyoming	4,555	4,815	4,599	5,512	5,809	5,504	5,803
Total	654,616	638,919	660,292	686,787	726,891	689,088	770,972

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017						
	Total	December	November	October	September	August	July
Alabama	196,686	18,546	16,591	15,959	15,361	15,837	15,690
Alaska	4,156	395	305	239	215	241	200
Arizona	19,250	1,999	1,498	1,573	1,387	1,374	1,331
Arkansas	100,251	9,549	8,536	8,717	7,766	7,936	7,577
California	760,661	66,073	62,097	64,587	67,363	69,045	64,345
Colorado	84,914	9,236	7,830	6,938	5,080	5,415	5,273
Connecticut	24,557	2,604	2,348	1,664	1,665	1,737	1,750
Delaware	29,860	2,511	2,534	2,647	2,927	2,492	2,272
District of Columbia	0	0	0	0	0	0	0
Florida	103,417	9,700	8,977	8,841	7,277	8,360	8,082
Georgia	150,172	13,801	13,207	11,771	10,375	12,475	12,212
Hawaii	85	5	7	7	8	8	7
Idaho	35,856	3,492	3,326	3,248	2,701	2,259	2,470
Illinois	258,841	28,905	24,949	20,943	18,252	18,199	17,082
Indiana	379,118	39,292	32,914	29,353	29,286	28,791	28,373
Iowa	241,187	23,040	21,394	18,916	18,558	19,383	19,224
Kansas	127,653	12,437	11,451	9,490	10,383	11,177	11,787
Kentucky	113,582	11,385	10,094	9,133	8,186	8,383	7,998
Louisiana	1,096,400	100,026	95,589	93,604	89,667	93,269	90,756
Maine	17,698	1,892	1,752	1,396	1,291	1,229	1,300
Maryland	15,744	1,549	1,545	1,255	1,205	1,133	1,183
Massachusetts	47,004	5,754	4,138	2,860	2,524	2,521	2,494
Michigan	170,189	19,301	15,375	13,700	11,313	11,794	10,642
Minnesota	165,901	15,419	14,756	12,890	12,342	12,902	12,244
Mississippi	128,356	11,839	11,234	10,449	10,432	10,624	10,028
Missouri	63,158	6,841	5,617	5,105	4,311	4,557	4,367
Montana	23,393	2,756	2,668	2,668	2,088	1,930	1,817
Nebraska	89,521	8,325	7,795	7,870	6,724	7,276	7,653
Nevada	19,269	1,832	1,646	1,737	1,530	1,581	1,454
New Hampshire	9,499	941	818	725	677	658	680
New Jersey	54,298	4,845	4,086	4,941	3,545	3,830	4,099
New Mexico	15,412	1,486	1,304	1,327	1,215	1,260	1,265
New York	82,779	9,123	8,387	6,613	5,711	5,760	5,605
North Carolina	107,373	10,727	10,190	9,444	8,158	8,420	7,805
North Dakota	32,127	3,244	2,603	2,658	1,797	2,491	2,506
Ohio	277,767	29,055	25,226	21,235	20,375	19,389	19,040
Oklahoma	199,576	17,611	16,344	17,006	16,351	16,119	15,682
Oregon	57,849	5,265	4,791	4,894	4,363	4,270	4,137
Pennsylvania	219,028	21,967	20,038	17,812	16,507	15,614	15,801
Rhode Island	8,551	773	709	641	673	672	644
South Carolina	91,644	8,265	8,536	8,064	7,059	7,447	6,996
South Dakota	45,481	4,246	3,996	3,530	3,555	3,642	3,589
Tennessee	134,555	12,987	10,700	10,473	10,403	10,891	10,480
Texas	1,681,634	155,675	146,275	142,341	130,756	140,307	142,969
Utah	40,007	3,874	3,380	2,947	3,048	2,907	3,035
Vermont	2,191	226	204	166	158	164	158
Virginia	94,098	8,239	8,300	7,583	7,553	7,439	6,704
Washington	80,656	7,720	6,995	7,290	6,287	6,088	5,935
West Virginia	38,358	3,596	3,444	3,193	3,046	3,101	2,953
Wisconsin	154,920	17,463	14,978	12,171	10,461	10,954	10,268
Wyoming	54,512	5,483	4,635	4,389	4,192	4,199	3,973
Total	7,949,199	761,315	696,113	657,005	616,109	637,549	623,935

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017					
	June	May	April	March	February	January
Alabama	15,792	16,284	15,914	17,380	15,521	17,810
Alaska	341	374	403	473	468	502
Arizona	1,348	1,560	1,582	1,753	1,780	2,064
Arkansas	7,754	8,214	7,911	8,428	8,369	9,493
California	60,312	62,370	60,361	62,969	56,866	64,275
Colorado	5,382	6,685	7,107	7,806	7,890	10,271
Connecticut	1,691	1,756	1,848	2,633	2,217	2,644
Delaware	2,424	2,316	1,837	2,353	2,657	2,888
District of Columbia	0	0	0	0	0	0
Florida	7,874	8,590	8,494	9,403	8,369	9,450
Georgia	12,582	12,594	11,774	13,764	12,166	13,451
Hawaii	7	7	7	8	7	8
Idaho ^a	2,453	2,739	2,817	3,180	3,273	3,897
Illinois	17,387	19,237	20,040	23,713	22,906	27,228
Indiana	27,048	28,706	30,510	34,796	32,500	37,551
Iowa	19,011	19,588	19,374	21,556	19,552	21,591
Kansas	10,250	9,317	10,133	10,059	10,103	11,066
Kentucky	8,470	9,191	9,028	10,431	9,855	11,429
Louisiana	88,608	89,293	88,029	90,433	82,593	94,532
Maine	1,200	1,257	1,435	1,634	1,567	1,745
Maryland	1,294	1,234	1,040	1,535	1,281	1,490
Massachusetts	2,712	3,205	4,319	5,615	5,144	5,717
Michigan	10,688	12,253	12,863	17,286	16,158	18,815
Minnesota	12,617	12,857	13,737	14,916	14,740	16,480
Mississippi	10,107	10,741	10,451	11,032	10,303	11,114
Missouri	4,327	4,679	4,834	5,869	5,637	7,014
Montana	1,470	1,158	1,341	1,731	1,724	2,042
Nebraska	6,272	6,928	7,076	7,413	7,670	8,520
Nevada	1,482	1,470	1,526	1,672	1,518	1,821
New Hampshire	676	759	853	911	910	892
New Jersey	4,479	4,363	4,045	5,556	5,033	5,475
New Mexico	1,221	1,277	1,214	1,122	1,212	1,509
New York	5,445	5,516	6,385	8,235	7,536	8,464
North Carolina	8,109	8,311	8,284	9,631	8,662	9,633
North Dakota	2,749	2,849	2,900	3,045	2,358	2,928
Ohio	18,629	21,099	22,328	26,700	25,763	28,927
Oklahoma	15,878	16,580	17,059	17,746	15,395	17,804
Oregon	4,399	4,747	4,780	5,208	5,093	5,901
Pennsylvania	15,971	16,819	17,066	21,082	19,076	21,275
Rhode Island	660	666	799	716	791	806
South Carolina	7,138	7,435	7,212	8,092	7,251	8,149
South Dakota	3,569	3,663	3,632	3,932	3,812	4,314
Tennessee	10,639	11,033	10,673	11,984	11,690	12,602
Texas	139,976	133,114	131,927	140,426	132,346	145,522
Utah	3,112	3,247	3,480	3,390	3,810	3,779
Vermont	158	158	167	215	196	222
Virginia	7,845	7,899	8,037	8,477	8,079	7,943
Washington	5,952	6,065	6,277	7,011	6,861	8,175
West Virginia	3,005	2,931	2,734	3,468	3,228	3,658
Wisconsin	9,988	11,080	11,765	15,105	13,844	16,843
Wyoming	4,015	4,380	4,591	4,948	4,618	5,089
Total	614,517	628,595	632,002	696,841	650,397	734,820

^a Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components.

^R Revised data.

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2017-2019

(million cubic feet)

State	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Alabama	154,057	161,873	140,194	37,062	27,418	34,456	27,370
Alaska	13,686	12,422	8,624	1,796	2,541	3,053	2,907
Arizona	114,017	74,741	55,468	23,776	25,354	22,739	19,902
Arkansas	48,481	58,485	47,946	10,517	8,996	9,218	11,323
California	193,909	198,218	182,983	25,583	28,430	40,034	48,209
Colorado	50,660	47,096	34,433	9,942	8,995	10,073	11,099
Connecticut	52,426	46,750	39,785	10,333	10,852	10,050	9,908
Delaware	8,473	14,318	17,723	1,858	1,821	2,288	1,317
District of Columbia	--	--	--	--	--	--	--
Florida	491,864	466,697	444,532	125,069	96,290	94,135	86,137
Georgia	144,635	140,705	138,556	33,240	29,292	24,715	27,340
Hawaii	--	--	--	--	--	--	--
Idaho	8,169	W	6,206	727	1,027	1,329	2,433
Illinois	49,811	W	39,595	8,791	11,625	9,957	9,073
Indiana	79,117	72,065	55,565	14,494	13,588	16,735	16,540
Iowa	16,238	18,499	6,850	2,901	2,671	3,604	3,429
Kansas	8,143	11,633	6,065	3,141	1,609	1,081	1,116
Kentucky	38,567	48,450	29,887	7,755	6,369	9,004	6,019
Louisiana	127,273	113,147	96,886	30,166	29,035	22,427	20,511
Maine	W	W	W	769	W	875	900
Maryland	38,493	36,166	16,352	7,987	6,856	10,353	8,069
Massachusetts	48,066	55,870	64,436	6,946	7,825	10,437	10,655
Michigan	98,213	108,761	77,526	18,852	20,271	19,458	18,369
Minnesota	26,795	25,766	17,733	4,245	5,670	5,681	6,572
Mississippi	128,636	151,483	129,607	30,377	24,766	24,102	23,871
Missouri	21,573	26,161	14,739	5,421	4,238	4,579	3,388
Montana	1,860	W	1,687	237	208	320	632
Nebraska	W	W	1,325	653	464	567	W
Nevada	66,182	68,863	68,712	12,812	12,362	13,401	13,038
New Hampshire	5,554	2,847	8,808	272	1,876	1,552	607
New Jersey	111,006	105,972	106,802	21,276	23,593	21,280	21,945
New Mexico	35,718	33,744	26,979	6,853	7,335	6,783	7,093
New York	134,626	143,328	145,022	23,871	24,542	26,947	28,522
North Carolina	119,549	119,835	109,103	23,009	20,383	25,216	26,309
North Dakota	3,004	W	3,417	498	604	633	605
Ohio	138,019	116,250	71,606	24,819	26,626	29,435	28,871
Oklahoma	105,765	106,485	73,422	19,937	19,857	20,243	21,027
Oregon	50,480	38,663	23,990	3,084	8,230	13,079	12,322
Pennsylvania	233,731	192,582	149,633	47,413	34,207	50,082	49,353
Rhode Island	17,288	W	14,890	4,438	3,329	3,749	2,767
South Carolina	66,568	50,911	50,812	16,324	13,057	11,775	12,721
South Dakota	W	W	W	W	W	391	W
Tennessee	42,033	33,881	29,211	10,307	4,388	9,970	8,384
Texas	574,755	578,218	463,546	140,566	100,102	109,233	101,043
Utah	26,347	17,306	14,487	5,173	3,782	6,315	5,489
Vermont	5	3	5	--	1	2	1
Virginia	147,310	128,928	114,238	24,755	23,711	31,350	33,433
Washington	30,300	24,726	23,970	3,145	5,555	6,676	5,596
West Virginia	2,423	W	W	672	673	413	247
Wisconsin	58,426	48,624	31,103	9,657	12,678	12,247	11,585
Wyoming	987	W	W	218	144	217	277
Total	3,941,700	3,802,502	3,215,112	822,092	724,048	792,262	769,182

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2017-2019

(million cubic feet) – continued

State	2019						2018
	January	Total	December	November	October	September	August
Alabama	27,750	431,553	29,657	31,156	37,623	43,565	43,207
Alaska	3,388	33,050	2,493	1,986	2,253	3,245	4,071
Arizona	22,246	287,022	22,826	21,531	29,186	35,761	38,560
Arkansas	8,427	142,080	4,925	7,204	14,584	11,685	14,852
California	51,653	629,469	53,610	55,519	61,611	56,086	76,620
Colorado	10,552	128,072	10,166	9,937	9,971	11,296	12,743
Connecticut	11,282	135,450	12,350	12,263	11,625	12,216	14,689
Delaware	1,189	34,950	1,157	1,534	3,866	3,767	4,715
District of Columbia	--	--	--	--	--	--	--
Florida	90,233	1,280,920	84,630	94,658	121,014	130,881	131,226
Georgia	30,047	377,421	26,149	24,294	31,444	36,863	39,093
Hawaii	--	--	--	--	--	--	--
Idaho	2,653	22,085	2,296	2,134	998	2,946	2,868
Illinois	10,365	160,255	6,629	9,696	11,096	16,976	21,600
Indiana	17,761	185,155	14,523	14,959	13,899	14,853	18,378
Iowa	3,633	49,657	3,311	2,199	3,095	5,980	5,545
Kansas	1,195	32,422	971	1,397	2,651	3,021	3,623
Kentucky	9,419	114,492	6,407	8,993	9,382	11,023	10,999
Louisiana	25,133	299,490	15,779	16,516	28,324	29,211	31,644
Maine	1,039	17,032	609	1,060	1,895	1,208	2,102
Maryland	5,228	101,163	6,609	5,916	10,430	11,179	11,914
Massachusetts	12,204	144,031	9,718	8,492	10,009	12,530	19,330
Michigan	21,264	247,744	16,362	15,088	18,163	21,959	24,231
Minnesota	4,627	65,650	3,090	3,227	3,740	7,768	8,014
Mississippi	25,520	364,790	19,543	24,432	24,146	33,807	39,032
Missouri	3,947	67,697	3,195	4,815	5,914	5,764	7,577
Montana	463	4,899	587	483	389	W	617
Nebraska	339	10,453	W	W	884	W	1,358
Nevada	14,570	200,426	13,538	13,701	15,257	20,429	23,976
New Hampshire	1,248	21,563	502	1,380	3,203	2,249	4,153
New Jersey	22,912	294,225	22,025	20,998	23,310	29,373	34,315
New Mexico	7,654	96,428	9,186	7,195	6,700	8,902	10,317
New York	30,744	420,296	29,514	30,423	33,418	40,474	55,506
North Carolina	24,631	333,347	24,407	26,316	29,108	31,035	34,560
North Dakota	665	7,145	W	W	620	W	874
Ohio	28,268	305,814	27,600	26,746	26,726	25,329	29,975
Oklahoma	24,702	314,498	19,134	21,567	22,265	32,133	36,435
Oregon	13,765	122,230	12,577	11,799	11,043	13,492	14,797
Pennsylvania	52,676	546,201	43,819	41,270	48,717	53,918	61,612
Rhode Island	3,005	51,613	3,817	3,208	5,211	5,379	5,878
South Carolina	12,691	176,797	10,920	15,988	17,220	22,220	20,600
South Dakota	449	8,180	W	W	608	W	1,073
Tennessee	8,985	99,712	6,638	7,785	9,254	10,989	11,266
Texas	123,811	1,615,400	109,193	102,609	127,916	153,251	185,073
Utah	5,588	61,649	5,836	5,311	6,044	6,066	8,147
Vermont	1	11	*	1	1	1	*
Virginia	34,060	356,382	31,191	27,014	22,035	35,404	38,248
Washington	9,328	78,505	5,160	3,046	5,661	10,127	11,922
West Virginia	417	10,754	W	687	1,401	1,875	1,416
Wisconsin	12,259	135,365	10,041	8,253	10,875	13,920	16,314
Wyoming	130	2,146	141	209	201	W	W
Total	834,116	10,625,694	743,958	756,296	894,986	1,044,507	1,195,340

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2017-2019

(million cubic feet) – continued

State	2018						
	July	June	May	April	March	February	January
Alabama	45,373	39,099	39,676	33,462	30,331	24,693	33,711
Alaska	3,987	2,592	1,991	2,139	3,017	2,393	2,883
Arizona	37,263	27,153	20,667	17,312	12,787	12,036	11,939
Arkansas	15,992	14,354	13,253	13,016	10,614	10,514	11,088
California	84,973	42,832	29,657	32,301	48,607	41,231	46,422
Colorado	14,696	12,168	10,487	7,543	8,770	9,878	10,417
Connecticut	14,093	11,464	8,699	8,947	10,374	9,458	9,272
Delaware	3,337	2,257	3,249	3,279	3,444	2,373	1,973
District of Columbia	--	--	--	--	--	--	--
Florida	132,621	119,193	105,002	96,910	92,076	82,249	90,459
Georgia	42,908	35,966	33,624	22,838	26,745	26,277	31,222
Hawaii	--	--	--	--	--	--	--
Idaho	3,238	1,845	1,018	W	1,132	1,164	1,457
Illinois	22,152	14,534	15,007	9,179	11,108	W	12,821
Indiana	19,444	17,035	17,450	13,231	12,630	12,852	15,902
Iowa	6,249	4,779	5,130	4,460	3,275	2,547	3,088
Kansas	4,797	4,329	5,045	2,276	1,825	1,149	1,338
Kentucky	10,957	8,280	9,701	7,394	9,356	7,509	14,489
Louisiana	34,746	30,123	28,705	20,431	19,561	19,450	25,000
Maine	2,005	1,506	1,313	918	1,406	W	805
Maryland	10,930	8,018	10,889	7,213	6,630	7,655	3,779
Massachusetts	17,622	10,459	8,734	8,496	12,610	13,613	12,417
Michigan	23,862	19,319	24,189	22,769	23,536	16,719	21,548
Minnesota	8,732	5,314	5,789	5,800	5,489	3,980	4,707
Mississippi	39,287	33,059	33,551	29,257	26,674	25,982	36,019
Missouri	7,849	6,421	6,754	2,756	4,530	7,184	4,937
Montana	524	280	368	W	273	287	337
Nebraska	1,626	785	1,313	W	415	274	486
Nevada	25,305	19,356	14,347	13,231	13,525	13,023	14,737
New Hampshire	4,186	3,043	850	616	242	223	916
New Jersey	34,230	24,002	21,642	21,604	23,835	22,040	16,853
New Mexico	10,711	9,673	8,520	7,315	6,829	5,685	5,395
New York	51,805	35,828	31,178	26,275	27,334	30,594	27,946
North Carolina	38,192	29,893	24,829	20,669	27,793	22,479	24,066
North Dakota	902	552	W	W	575	W	520
Ohio	29,020	24,168	23,004	21,898	23,049	22,169	26,130
Oklahoma	41,579	34,900	33,934	20,986	16,138	17,418	18,008
Oregon	14,196	5,663	3,179	6,488	11,260	7,384	10,352
Pennsylvania	57,672	46,611	37,153	37,289	41,539	39,647	36,955
Rhode Island	5,566	4,450	3,927	3,670	3,598	W	3,178
South Carolina	21,539	17,399	12,351	9,547	10,432	7,073	11,508
South Dakota	1,207	588	W	W	443	W	549
Tennessee	11,132	8,768	5,411	5,604	7,150	6,543	9,174
Texas	202,274	156,865	145,076	100,637	106,900	103,835	121,769
Utah	8,389	4,549	3,814	3,235	3,229	3,245	3,783
Vermont	2	2	*	2	1	1	--
Virginia	38,204	35,359	27,585	19,845	26,513	27,627	27,358
Washington	12,207	5,656	3,431	4,339	6,190	4,501	6,266
West Virginia	1,347	868	1,053	1,145	275	W	517
Wisconsin	16,375	10,964	9,113	7,434	11,291	10,081	10,705
Wyoming	329	147	W	W	W	145	W
Total	1,235,633	952,471	853,201	707,388	755,400	701,253	785,260

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017						
	Total	December	November	October	September	August	July
Alabama	387,460	30,027	30,663	31,968	35,935	41,891	43,183
Alaska	27,141	2,879	2,287	2,739	2,590	3,148	3,075
Arizona	222,843	15,583	12,775	21,580	24,782	31,174	34,001
Arkansas	133,042	12,806	6,552	10,535	10,781	14,121	16,802
California	597,171	50,535	48,013	58,492	62,609	78,072	67,121
Colorado	98,427	8,882	6,641	6,431	9,209	11,276	12,634
Connecticut	107,213	10,080	10,253	9,317	8,206	10,854	10,807
Delaware	45,793	2,622	2,381	3,671	3,758	5,123	5,481
District of Columbia	*	*	--	--	--	--	--
Florida	1,196,155	86,507	83,018	106,714	112,489	128,071	125,089
Georgia	377,452	32,831	26,920	29,911	33,691	41,187	39,860
Hawaii	--	--	--	--	--	--	--
Idaho	20,214	2,067	1,608	2,046	2,004	2,466	2,481
Illinois	116,882	9,016	7,543	8,982	11,325	12,376	15,559
Indiana	151,820	16,492	12,651	12,159	13,843	13,840	15,322
Iowa	27,706	3,249	2,098	2,623	3,197	3,935	3,785
Kansas	23,257	1,582	1,563	2,518	2,034	2,852	4,037
Kentucky	84,878	8,188	7,550	5,319	6,666	8,501	10,869
Louisiana	272,156	21,902	15,618	26,045	25,718	29,240	30,216
Maine	19,088	1,601	W	W	W	W	W
Maryland	51,303	5,044	5,218	3,262	5,952	4,900	5,951
Massachusetts	163,128	13,410	9,884	12,070	13,431	17,504	17,273
Michigan	216,285	21,153	16,756	19,250	18,700	21,353	23,797
Minnesota	58,713	5,661	4,496	5,591	5,964	7,274	8,038
Mississippi	346,990	31,169	24,528	25,870	29,682	36,360	39,236
Missouri	44,834	3,383	3,547	W	4,698	4,582	5,821
Montana	5,118	450	340	434	532	727	634
Nebraska	5,531	284	282	319	588	769	1,513
Nevada	196,646	14,765	14,037	16,823	17,643	22,428	22,970
New Hampshire	25,975	1,429	1,850	1,668	3,324	3,468	2,923
New Jersey	278,263	23,081	18,584	21,751	23,629	26,502	31,311
New Mexico	75,644	6,207	4,903	5,982	6,601	7,717	9,181
New York	400,403	31,253	27,835	30,115	36,648	44,450	47,146
North Carolina	285,843	26,844	22,687	22,530	24,699	27,503	28,212
North Dakota	10,100	993	821	899	973	1,111	1,126
Ohio	205,619	21,547	20,491	15,269	17,640	20,914	21,142
Oklahoma	235,574	19,103	14,548	18,031	21,568	29,133	34,774
Oregon	88,673	11,711	8,347	10,577	9,407	11,698	9,828
Pennsylvania	440,807	33,147	32,340	45,997	44,848	46,837	49,613
Rhode Island	41,128	3,072	3,304	W	3,926	4,249	4,480
South Carolina	135,107	9,625	10,191	12,271	12,622	13,429	14,172
South Dakota	6,467	540	427	543	707	865	1,071
Tennessee	77,410	6,653	5,416	6,291	6,626	7,456	8,614
Texas	1,383,503	110,222	88,443	110,054	125,868	166,502	176,441
Utah	40,900	3,738	1,982	2,017	3,581	6,207	5,218
Vermont	12	1	1	*	1	1	*
Virginia	327,126	27,707	26,263	21,680	31,012	35,320	37,392
Washington	77,234	8,453	6,714	8,284	7,571	10,262	8,374
West Virginia	11,295	434	915	2,067	2,064	1,470	1,544
Wisconsin	104,470	10,144	8,004	10,295	10,809	12,373	13,683
Wyoming	1,268	154	90	55	116	219	292
Total	9,250,066	768,229	662,814	779,799	862,068	1,033,682	1,074,275

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2017-2019
(million cubic feet) – continued

State	2017					
	June	May	April	March	February	January
Alabama	33,599	30,994	29,790	30,529	23,174	25,708
Alaska	1,798	1,398	1,510	1,916	1,470	2,331
Arizona	27,480	19,077	14,165	7,307	5,396	9,522
Arkansas	13,498	13,100	11,525	11,030	7,424	4,866
California	49,346	35,394	27,417	31,506	37,508	51,157
Colorado	8,919	7,299	7,343	5,826	5,680	8,285
Connecticut	7,911	6,513	7,058	7,920	8,140	10,154
Delaware	5,034	4,977	3,096	4,208	2,807	2,635
District of Columbia	--	--	--	--	--	--
Florida	109,736	110,008	93,552	90,505	72,938	77,530
Georgia	34,495	30,628	24,262	27,563	27,669	28,434
Hawaii	--	--	--	--	--	--
Idaho	1,336	1,018	1,049	1,324	1,077	1,738
Illinois	12,488	8,386	6,401	10,068	7,394	7,345
Indiana	11,947	7,722	9,715	14,366	11,093	12,669
Iowa	1,969	1,450	1,609	1,256	952	1,583
Kansas	2,604	1,598	1,520	1,451	621	874
Kentucky	7,897	6,451	6,616	7,421	4,293	5,106
Louisiana	26,532	23,915	20,939	21,216	15,835	14,982
Maine	W	W	W	W	W	1,402
Maryland	4,624	3,267	3,780	4,637	2,708	1,960
Massachusetts	15,120	13,217	13,630	13,567	11,524	12,498
Michigan	17,749	15,867	13,869	19,052	12,299	16,439
Minnesota	3,957	3,115	2,990	3,813	2,922	4,893
Mississippi	30,537	30,306	25,274	29,604	18,842	25,581
Missouri	4,260	2,943	2,696	3,538	2,583	2,978
Montana	315	319	333	343	288	404
Nebraska	450	342	210	358	143	273
Nevada	19,267	14,582	11,945	12,837	13,168	16,181
New Hampshire	2,505	1,776	3,572	1,464	893	1,104
New Jersey	26,603	22,211	20,150	26,548	17,255	20,637
New Mexico	8,075	6,116	4,531	5,096	5,004	6,231
New York	37,934	28,322	25,663	33,506	26,606	30,926
North Carolina	24,265	21,983	18,297	24,879	21,931	22,013
North Dakota	761	628	628	675	624	862
Ohio	17,010	14,752	11,832	15,964	13,968	15,089
Oklahoma	24,995	18,664	16,848	12,971	10,845	14,093
Oregon	3,116	2,020	2,330	3,256	5,735	10,649
Pennsylvania	38,393	27,745	25,534	32,555	30,334	33,465
Rhode Island	3,817	3,286	3,093	2,987	2,638	2,887
South Carolina	11,987	12,820	11,209	9,993	8,927	7,863
South Dakota	W	352	W	452	270	490
Tennessee	7,142	3,618	6,468	8,876	5,105	5,144
Texas	142,427	111,299	97,943	93,567	75,007	85,730
Utah	3,670	2,516	2,195	2,210	2,677	4,889
Vermont	1	2	*	2	1	2
Virginia	33,514	23,226	19,393	26,434	22,401	22,783
Washington	3,605	3,452	4,295	4,373	4,100	7,748
West Virginia	1,047	496	W	W	W	W
Wisconsin	8,059	5,542	5,611	7,853	5,223	6,873
Wyoming	85	W	55	W	27	97
Total	854,087	706,151	623,889	678,970	558,740	647,362

^a The electric power sector comprises electricity-only (utilities and independent power producers) and combined-heat-and-power plants within the NAICS 22 sector, whose primary business is to sell electricity, or electricity and heat, to the public.

-- Not applicable.

* Volume is less than 500 Mcf.

^w Withheld.

Notes: Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

Source: U.S. Energy Information Administration (EIA): Form EIA-923, "Power Plant Operations Report."

Table 18. Natural gas deliveries to all consumers, by state, 2017-2019

(million cubic feet)

State	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Alabama	NA	282,183	246,608	NA	47,405	59,557	50,587
Alaska	NA	32,432	29,939	NA	NA	NA	NA
Arizona	169,053	NA	100,912	30,287	32,780	34,151	33,895
Arkansas	NA	NA	126,348	24,132	23,597	NA	31,419
California	875,869	851,748	839,881	139,134	136,005	178,737	210,308
Colorado	210,464	191,562	166,695	28,746	30,639	47,045	50,103
Connecticut	126,761	120,179	107,656	17,551	20,794	26,912	28,281
Delaware	40,091	NA	42,326	6,014	6,204	9,143	8,571
District of Columbia	NA	NA	15,081	1,271	1,838	3,690	NA
Florida	NA	550,877	524,198	141,892	NA	NA	103,301
Georgia	307,390	308,661	279,953	53,264	52,341	59,958	61,725
Hawaii	1,406	1,385	1,322	279	279	278	268
Idaho	50,332	43,951	48,340	5,517	7,015	10,326	13,162
Illinois	575,737	567,690	476,748	60,327	80,821	127,381	140,675
Indiana	408,264	NA	326,437	57,488	63,918	90,622	89,932
Iowa	200,030	197,421	169,151	29,115	30,801	43,060	46,411
Kansas	NA	129,695	104,134	16,137	NA	26,059	32,354
Kentucky	141,308	154,062	118,687	19,237	20,291	32,852	29,331
Louisiana	649,498	NA	567,648	133,362	129,427	126,594	121,789
Maine	20,850	21,479	20,958	3,075	3,168	4,510	4,748
Maryland	132,890	NA	102,543	15,929	16,584	32,754	32,950
Massachusetts	212,100	227,425	217,777	22,561	29,934	47,470	51,358
Michigan	498,195	NA	409,693	56,082	75,200	111,902	116,547
Minnesota	253,649	NA	214,930	28,348	38,851	54,547	65,199
Mississippi	207,420	233,904	200,443	43,098	38,837	41,030	39,360
Missouri	157,474	162,506	120,836	16,190	18,606	35,038	40,780
Montana	NA	NA	34,019	NA	5,525	8,941	11,639
Nebraska	83,074	85,227	74,985	11,390	11,462	17,795	21,229
Nevada	NA	116,643	117,600	18,974	19,664	25,221	NA
New Hampshire	20,927	17,595	22,453	1,904	4,082	4,926	4,364
New Jersey	353,127	NA	338,968	41,530	51,784	78,333	85,396
New Mexico	78,559	72,552	61,272	11,510	12,891	15,228	17,953
New York	641,176	639,802	593,916	69,775	90,198	146,881	151,579
North Carolina	NA	NA	209,781	NA	36,631	53,090	53,292
North Dakota	36,839	NA	30,794	5,062	5,835	7,838	8,936
Ohio	547,299	520,334	419,463	63,119	80,723	125,117	128,978
Oklahoma	264,111	261,497	205,061	42,553	43,929	54,989	56,647
Oregon	118,688	NA	94,253	10,739	18,754	28,069	30,253
Pennsylvania	NA	542,960	452,053	80,154	77,911	NA	NA
Rhode Island	40,564	40,886	35,817	6,574	6,405	9,085	8,547
South Carolina	137,094	NA	112,192	26,032	24,337	27,015	27,801
South Dakota	38,604	NA	34,154	5,264	6,192	8,145	9,630
Tennessee	178,605	NA	139,340	25,856	23,237	40,685	38,829
Texas	1,543,126	NA	1,321,278	300,853	272,459	312,902	303,571
Utah	NA	NA	88,254	NA	13,647	23,615	26,921
Vermont	NA	6,784	6,071	727	1,065	1,608	1,797
Virginia	NA	NA	231,570	38,244	40,449	NA	66,170
Washington	143,660	NA	141,167	15,727	22,493	31,007	36,590
West Virginia	NA	NA	41,740	5,620	6,570	NA	9,978
Wisconsin	282,769	266,873	221,962	33,388	44,967	61,304	67,323
Wyoming	NA	44,691	39,395	6,846	NA	9,321	10,203
Total	12,391,863	12,122,339	10,646,798	1,889,182	1,968,190	2,645,667	2,756,533

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2017-2019

(million cubic feet) – continued

State	2019							2018
	January	Total	December	November	October	September	August	
Alabama	60,411	698,910	58,796	57,508	57,874	61,167	61,149	
Alaska	NA	NA	NA	6,193	5,055	5,142	5,630	
Arizona	37,941	NA	35,279	30,164	35,133	40,524	43,399	
Arkansas	32,476	NA	26,501	26,591	28,833	23,481	27,017	
California	211,684	NA	211,685	179,926	168,900	161,684	NA	
Colorado	53,931	408,565	53,402	42,225	30,398	21,999	22,702	
Connecticut	33,222	272,077	30,131	26,968	20,327	17,736	20,259	
Delaware	10,160	NA	8,036	NA	8,274	6,869	7,875	
District of Columbia	4,663	NA	4,031	3,344	1,825	985	1,213	
Florida	110,108	1,470,666	103,183	110,632	135,533	145,024	145,403	
Georgia	80,103	725,984	70,368	62,485	53,861	55,136	58,597	
Hawaii	302	3,281	273	266	272	257	281	
Idaho	14,312	103,004	13,830	11,545	7,567	7,269	6,544	
Illinois	166,532	1,101,451	126,892	119,967	73,447	52,602	55,980	
Indiana	106,304	NA	87,782	82,270	NA	49,344	54,641	
Iowa	50,642	424,911	42,880	40,408	32,128	28,159	28,683	
Kansas	34,435	272,693	29,896	26,653	17,899	15,377	17,006	
Kentucky	39,597	320,833	30,666	31,621	23,659	20,995	21,141	
Louisiana	138,326	NA	123,234	118,430	125,059	126,599	128,940	
Maine	5,348	NA	4,464	4,462	4,542	3,190	NA	
Maryland	34,674	NA	30,484	26,111	21,426	17,528	18,330	
Massachusetts	60,777	439,392	49,049	40,543	25,511	22,091	28,290	
Michigan	138,464	NA	109,859	96,612	66,608	45,183	47,680	
Minnesota	66,704	NA	55,304	48,332	32,216	24,769	24,525	
Mississippi	45,096	544,802	37,564	41,330	37,575	46,063	51,628	
Missouri	46,860	316,832	37,354	35,495	20,505	14,240	16,026	
Montana	9,640	NA	9,635	8,165	6,054	4,095	3,917	
Nebraska	21,197	174,884	18,785	17,183	13,035	10,407	9,709	
Nevada	29,282	295,852	26,329	22,582	21,310	25,469	28,731	
New Hampshire	5,651	48,987	4,168	4,521	4,678	3,400	5,227	
New Jersey	96,084	NA	NA	NA	NA	NA	48,037	
New Mexico	20,976	NA	NA	NA	12,311	12,236	13,779	
New York	182,744	NA	145,958	130,890	87,435	72,803	86,732	
North Carolina	61,724	NA	56,365	54,622	45,528	42,450	46,830	
North Dakota	9,168	NA	8,128	7,005	6,104	4,470	4,290	
Ohio	149,361	1,060,270	123,712	112,441	76,735	55,430	59,322	
Oklahoma	65,993	636,821	55,974	53,117	44,995	52,259	55,786	
Oregon	30,873	NA	29,032	25,074	20,302	20,087	20,776	
Pennsylvania	NA	1,196,610	125,911	111,299	91,054	80,366	88,137	
Rhode Island	9,954	92,593	9,443	7,773	7,895	6,741	7,199	
South Carolina	31,910	NA	28,663	31,952	28,523	30,919	30,102	
South Dakota	9,373	NA	8,540	7,491	6,062	5,404	5,197	
Tennessee	49,999	NA	41,120	NA	26,752	25,472	25,751	
Texas	353,341	NA	326,352	296,756	289,903	315,244	350,915	
Utah	29,685	NA	28,943	22,930	16,620	12,161	13,911	
Vermont	NA	13,515	1,785	1,523	991	636	593	
Virginia	73,142	NA	63,228	50,755	38,813	NA	49,660	
Washington	37,842	NA	32,922	24,920	23,029	21,811	21,701	
West Virginia	12,658	NA	10,389	9,613	7,302	5,808	5,664	
Wisconsin	75,787	543,599	59,991	54,294	39,610	31,039	32,648	
Wyoming	11,111	97,873	11,421	9,851	8,119	6,327	6,076	
Total	3,132,292	27,405,168	2,721,388	2,463,484	2,059,861	1,951,602	2,097,423	

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2017-2019

(million cubic feet) – continued

State	2018						
	July	June	May	April	March	February	January
Alabama	63,229	57,003	58,602	54,593	54,531	46,883	67,575
Alaska	5,339	4,217	4,231	5,165	7,405	7,496	8,135
Arizona	42,155	NA	NA	NA	NA	NA	NA
Arkansas	27,111	25,341	25,355	28,688	29,316	30,322	NA
California	188,258	144,413	139,102	145,275	192,850	179,123	195,398
Colorado	24,288	21,989	25,148	29,704	37,490	47,842	51,378
Connecticut	19,539	16,938	14,915	21,438	27,151	25,234	31,441
Delaware	NA	NA	NA	NA	NA	NA	NA
District of Columbia	1,077	1,158	1,084	2,212	3,801	3,548	NA
Florida	146,612	133,402	120,013	112,901	109,649	97,657	110,659
Georgia	61,827	55,049	53,633	48,665	63,140	55,695	87,527
Hawaii	277	270	266	276	273	261	309
Idaho	6,788	5,510	5,089	6,724	9,648	10,709	11,781
Illinois	56,141	48,732	55,346	97,499	118,702	130,933	165,211
Indiana	57,518	53,064	58,721	69,062	82,594	81,419	NA
Iowa	28,712	26,520	28,156	37,050	40,324	42,377	49,515
Kansas	18,802	17,364	18,851	22,867	24,290	29,161	34,526
Kentucky	20,796	17,893	20,920	24,607	32,219	29,689	46,628
Louisiana	132,491	129,199	128,839	116,872	118,634	116,497	NA
Maine	NA	3,097	2,998	3,501	4,665	5,428	4,888
Maryland	17,280	14,955	NA	NA	NA	NA	35,173
Massachusetts	26,319	20,165	20,665	35,984	51,556	56,708	62,512
Michigan	45,758	42,206	54,126	90,679	112,839	NA	134,291
Minnesota	25,256	22,349	NA	43,816	50,991	59,746	66,494
Mississippi	51,156	45,582	46,696	44,187	42,546	41,234	59,240
Missouri	15,993	14,713	15,980	24,566	32,362	40,619	48,979
Montana	3,733	3,698	4,326	6,221	NA	9,727	9,847
Nebraska	11,097	9,442	11,181	15,858	16,573	19,754	21,860
Nevada	30,255	24,533	20,196	20,387	24,697	24,399	26,963
New Hampshire	5,231	4,167	2,155	3,082	3,565	3,441	5,351
New Jersey	48,643	39,460	NA	NA	NA	NA	NA
New Mexico	13,806	12,997	12,478	12,326	15,822	14,549	17,377
New York	84,057	NA	70,869	111,185	142,375	139,857	175,515
North Carolina	50,014	41,905	37,506	39,805	57,983	45,926	NA
North Dakota	4,244	3,961	NA	6,553	NA	7,642	8,048
Ohio	58,009	54,287	55,592	92,247	115,821	109,312	147,362
Oklahoma	59,438	53,755	55,160	47,925	45,230	53,683	59,499
Oregon	20,127	12,424	10,408	16,963	25,247	NA	25,832
Pennsylvania	83,816	73,067	66,820	95,011	126,654	112,473	142,002
Rhode Island	6,851	5,803	5,440	7,517	9,077	8,538	10,315
South Carolina	30,768	26,818	22,337	21,418	NA	20,214	31,718
South Dakota	5,241	4,756	NA	NA	NA	8,641	9,384
Tennessee	25,657	24,008	21,349	28,912	29,947	34,369	NA
Texas	369,419	317,008	315,416	274,808	299,947	293,452	NA
Utah	14,257	11,266	NA	14,135	21,781	20,716	24,554
Vermont	586	617	612	1,235	1,511	1,469	1,958
Virginia	51,105	NA	40,915	39,434	58,482	54,797	NA
Washington	22,220	16,636	15,068	22,452	NA	31,303	33,569
West Virginia	5,512	4,803	NA	8,400	10,702	9,659	13,542
Wisconsin	32,076	27,067	28,977	46,911	57,013	62,515	71,457
Wyoming	5,538	5,851	6,342	8,543	9,793	9,801	10,212
Total	2,134,810	1,854,260	1,846,899	2,134,842	2,556,271	2,500,614	3,083,713

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017						
	Total	December	November	October	September	August	July
Alabama	633,536	58,705	52,507	51,120	53,284	59,505	60,613
Alaska	67,102	7,777	7,037	5,747	4,408	4,540	4,327
Arizona	308,987	25,781	19,193	27,065	29,466	35,675	38,540
Arkansas	306,547	34,479	21,990	23,874	22,056	25,514	27,659
California	2,048,294	209,200	167,614	168,017	165,626	183,216	167,601
Colorado	355,187	47,843	32,413	25,884	19,771	21,291	22,248
Connecticut	232,737	28,386	22,629	15,209	13,453	16,036	16,071
Delaware	98,913	9,367	7,332	7,403	7,509	8,346	8,403
District of Columbia	29,055	5,148	2,408	1,506	1,205	1,206	1,222
Florida	1,376,529	104,113	98,545	121,395	125,040	141,640	138,404
Georgia	689,147	77,578	57,534	51,820	50,492	60,014	58,267
Hawaii	3,104	259	257	249	250	253	244
Idaho	104,810	13,771	9,941	8,950	6,498	6,001	6,188
Illinois	969,718	143,381	99,160	61,477	46,494	46,759	49,042
Indiana	730,238	95,968	68,416	52,073	48,404	47,049	48,033
Iowa	378,999	45,445	35,968	28,090	24,688	26,006	25,638
Kansas	240,053	30,096	23,014	16,578	15,283	16,853	18,430
Kentucky	274,656	35,789	26,722	18,529	17,218	18,816	20,641
Louisiana	1,426,152	132,127	116,532	123,403	118,419	125,642	124,012
Maine	48,461	5,531	4,388	3,422	3,450	3,547	3,824
Maryland	215,283	33,267	22,801	10,808	12,139	10,636	12,342
Massachusetts	441,202	60,043	37,900	24,547	22,926	26,633	26,242
Michigan	848,731	124,966	86,103	55,775	43,045	44,004	44,647
Minnesota	448,431	59,913	45,436	30,511	23,942	25,566	25,432
Mississippi	511,522	49,854	39,515	38,668	41,755	48,523	50,682
Missouri	253,061	39,768	25,416	14,056	13,189	13,132	13,900
Montana	73,367	10,357	8,186	6,371	4,266	3,691	3,465
Nebraska	158,234	18,969	15,090	11,290	8,945	9,294	10,884
Nevada	291,219	27,143	21,494	23,082	22,731	27,051	27,680
New Hampshire	51,997	5,492	4,498	3,048	4,408	4,550	3,942
New Jersey	703,505	95,136	57,581	44,492	38,167	39,526	45,873
New Mexico	144,797	17,116	11,383	10,681	9,823	10,924	12,343
New York	1,230,272	162,415	110,597	69,247	68,377	75,654	77,970
North Carolina	507,118	60,558	46,758	38,011	36,736	39,646	39,801
North Dakota	66,201	8,187	6,406	5,102	3,466	4,132	4,094
Ohio	900,058	132,665	94,369	57,973	49,278	50,545	49,665
Oklahoma	524,660	55,594	39,415	38,710	40,809	48,168	53,129
Oregon	226,396	30,130	21,657	20,801	16,130	17,619	15,743
Pennsylvania	1,025,040	119,724	92,549	79,557	70,996	71,103	74,476
Rhode Island	79,562	9,502	7,228	5,117	5,247	5,595	5,810
South Carolina	274,328	26,832	24,073	22,960	21,544	22,667	23,128
South Dakota	74,907	8,717	6,885	5,462	4,873	5,036	5,157
Tennessee	318,011	42,617	28,586	22,009	20,697	21,479	22,182
Texas	3,398,560	311,224	262,223	272,675	273,151	323,018	336,221
Utah	189,225	28,155	16,769	12,314	9,914	11,811	11,244
Vermont	11,922	1,747	1,257	679	589	561	533
Virginia	567,057	62,562	49,634	36,457	43,767	47,691	49,173
Washington	309,587	39,647	30,537	26,383	18,860	20,319	18,381
West Virginia	94,497	12,036	9,256	7,666	6,678	5,900	5,824
Wisconsin	480,976	67,642	48,341	33,934	27,042	28,987	29,148
Wyoming	82,336	9,258	7,329	6,419	5,019	5,033	4,887
Total	24,824,284	2,841,983	2,152,873	1,846,618	1,741,521	1,916,404	1,943,403

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2017-2019

(million cubic feet) – continued

State	2017					
	June	May	April	March	February	January
Alabama	51,195	49,493	48,288	53,399	44,023	51,405
Alaska	3,327	3,611	4,538	7,108	6,317	8,365
Arizona	32,356	24,948	20,879	15,951	16,640	22,493
Arkansas	24,627	25,359	23,715	26,912	23,804	26,558
California	147,140	143,129	136,563	156,928	172,459	230,802
Colorado	19,040	23,360	27,374	30,709	34,486	50,767
Connecticut	13,297	13,235	16,255	25,424	23,889	28,853
Delaware	8,226	8,364	6,295	9,944	8,364	9,359
District of Columbia	1,278	1,622	1,795	3,717	3,377	4,569
Florida	123,194	124,599	108,787	107,284	88,431	95,097
Georgia	53,488	50,845	44,648	59,656	57,498	67,305
Hawaii	270	244	256	271	259	292
Idaho	5,120	5,844	7,245	8,952	10,682	15,617
Illinois	46,656	57,270	63,296	111,839	102,317	142,027
Indiana	43,858	45,350	51,729	75,599	67,304	86,454
Iowa	24,013	25,761	28,310	36,675	34,889	43,515
Kansas	15,666	14,480	17,271	21,421	20,858	30,105
Kentucky	18,255	18,179	19,348	27,395	23,571	30,194
Louisiana	118,370	116,680	112,748	116,954	103,637	117,629
Maine	3,341	3,238	3,684	4,957	4,181	4,898
Maryland	10,747	11,723	12,520	27,258	23,067	27,975
Massachusetts	25,133	28,267	34,077	55,593	46,521	53,319
Michigan	40,497	50,650	56,797	101,213	87,669	113,364
Minnesota	22,701	25,883	32,514	47,705	47,075	61,753
Mississippi	42,080	42,884	37,527	44,572	32,966	42,494
Missouri	12,764	13,817	15,304	26,265	25,902	39,548
Montana	3,012	3,474	4,993	6,781	8,018	10,754
Nebraska	8,778	10,291	11,592	15,168	16,189	21,745
Nevada	24,437	20,450	19,042	22,180	24,634	31,294
New Hampshire	3,606	3,307	5,476	5,007	3,976	4,686
New Jersey	43,761	44,096	48,294	87,199	70,997	88,382
New Mexico	11,255	10,071	9,536	11,134	12,867	17,664
New York	72,097	72,823	84,599	151,049	131,130	154,315
North Carolina	35,827	34,837	31,908	48,901	42,892	51,243
North Dakota	4,021	4,312	5,157	6,839	6,262	8,224
Ohio	46,100	53,118	56,698	101,096	91,837	116,713
Oklahoma	43,774	39,046	39,049	39,004	37,127	50,835
Oregon	10,063	10,610	13,365	16,941	21,366	31,971
Pennsylvania	64,582	61,436	65,571	108,014	99,298	117,733
Rhode Island	5,246	5,296	5,843	8,722	7,452	8,504
South Carolina	20,932	22,433	21,094	23,847	21,206	23,613
South Dakota	4,622	4,985	5,596	7,217	7,095	9,262
Tennessee	21,100	18,960	22,038	33,006	29,179	36,157
Texas	298,771	263,747	251,777	264,981	246,261	294,512
Utah	10,765	10,643	13,851	14,753	18,550	30,457
Vermont	485	679	854	1,562	1,382	1,594
Virginia	46,203	37,565	35,360	54,617	48,190	55,838
Washington	14,295	17,118	22,439	28,292	30,950	42,367
West Virginia	5,398	5,408	5,995	10,234	9,036	11,068
Wisconsin	23,918	27,096	32,142	52,868	47,205	62,651
Wyoming	4,995	6,172	6,748	8,207	8,329	9,939
Total	1,734,683	1,716,805	1,750,781	2,331,317	2,151,615	2,696,281

^a Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components.

^R Revised data.

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 19. Average citygate price, by state, 2017-2019
(dollars per thousand cubic feet)

State	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Alabama	3.73	NA	3.93	3.74	3.48	3.59	3.65
Alaska	8.11	7.84	7.41	8.27	8.40	8.14	8.25
Arizona	NA	3.98	4.42	NA	NA	3.03	2.97
Arkansas	NA	4.06	4.54	NA	4.98	4.09	3.83
California	3.19	2.76	3.53	2.12	2.56	3.57	3.71
Colorado	3.61	3.33	3.84	3.02	3.44	3.81	3.59
Connecticut	5.07	4.86	4.39	6.69	5.58	4.70	4.70
Delaware	5.11	5.01	4.89	8.84	7.38	4.97	4.54
District of Columbia	--	--	--	--	--	--	--
Florida	7.18	NA	5.84	6.20	7.29	7.42	7.95
Georgia	4.04	3.76	4.28	3.83	3.92	3.83	4.00
Hawaii	18.32	20.10	16.28	21.98	21.85	18.51	15.60
Idaho	NA	NA	3.12	2.20	2.03	3.15	NA
Illinois	3.45	3.56	3.87	2.63	3.05	3.96	3.24
Indiana	NA	3.74	3.88	NA	3.37	3.83	3.47
Iowa	NA	3.86	4.33	NA	NA	4.13	3.74
Kansas	3.81	3.82	4.36	4.76	4.20	3.99	3.28
Kentucky	NA	3.85	4.12	NA	3.80	3.51	3.46
Louisiana	NA	4.03	4.05	NA	3.48	4.02	4.16
Maine	NA	8.08	6.45	NA	5.32	7.41	8.15
Maryland	4.76	4.50	4.64	7.10	6.32	4.57	4.63
Massachusetts	5.03	6.05	4.69	6.37	4.95	5.05	4.79
Michigan	3.37	3.38	3.68	2.81	3.10	3.41	3.37
Minnesota	NA	3.65	4.03	NA	3.09	4.52	NA
Mississippi	4.01	4.06	4.40	3.96	4.03	3.93	3.96
Missouri	4.04	3.92	4.45	6.20	4.69	3.92	3.71
Montana	NA	NA	3.51	NA	2.71	3.27	2.89
Nebraska	3.94	3.80	4.26	3.34	3.44	4.17	3.70
Nevada	NA	3.48	4.32	2.80	3.32	4.30	NA
New Hampshire	6.20	7.29	5.53	3.99	4.03	5.37	6.36
New Jersey	4.81	4.61	4.43	4.30	4.84	4.79	5.02
New Mexico	NA	3.05	3.68	NA	NA	2.62	NA
New York	4.00	4.18	3.84	5.15	4.09	3.62	3.58
North Carolina	3.87	3.61	3.92	5.86	4.36	3.75	3.55
North Dakota	3.76	NA	4.31	3.08	3.39	3.98	3.53
Ohio	3.75	NA	3.92	3.74	3.54	3.67	3.84
Oklahoma	3.79	3.61	4.45	3.93	3.80	3.91	3.58
Oregon	3.56	3.63	3.76	3.90	3.03	3.74	3.83
Pennsylvania	4.48	4.03	4.21	5.79	4.84	4.71	4.13
Rhode Island	2.59	2.30	2.20	2.55	2.59	2.60	2.59
South Carolina	4.19	4.15	4.31	3.91	4.14	4.17	4.19
South Dakota	3.74	NA	4.13	2.97	3.31	4.10	3.51
Tennessee	3.73	3.96	4.15	3.57	3.82	3.72	3.52
Texas	3.32	NA	4.96	2.32	3.36	3.18	3.38
Utah	NA	5.76	5.47	NA	4.07	5.34	5.70
Vermont	4.24	4.89	5.33	3.69	4.01	4.27	4.18
Virginia	4.45	NA	4.29	6.67	5.46	4.18	4.22
Washington	NA	3.15	3.57	3.70	3.41	NA	NA
West Virginia	3.73	3.55	3.71	4.44	3.90	3.71	3.57
Wisconsin	4.04	3.96	4.22	3.90	3.65	4.17	3.99
Wyoming	NA	3.76	3.98	NA	3.02	3.80	3.62
Total	3.91	3.98	4.13	3.66	3.69	4.01	3.84

See footnotes at end of table.

Table 19. Average citygate price, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2019						2018
	January	Total	December	November	October	September	August
Alabama	3.99	NA	4.80	3.87	4.06	3.71	3.70
Alaska	7.76	7.34	6.91	6.91	6.73	6.58	6.34
Arizona	3.30	NA	3.02	3.39	2.87	2.67	NA
Arkansas	3.91	4.42	4.80	4.46	4.77	5.67	5.81
California	3.28	NA	NA	3.31	2.73	3.24	NA
Colorado	3.79	3.63	4.05	3.97	3.45	4.38	4.40
Connecticut	4.98	5.55	5.88	5.30	5.92	7.99	7.94
Delaware	4.37	NA	5.03	5.44	NA	10.97	10.35
District of Columbia	--	--	--	--	--	--	--
Florida	7.05	NA	7.29	7.79	7.17	7.11	7.00
Georgia	4.35	4.03	5.35	4.13	4.03	3.91	3.74
Hawaii	13.97	19.63	16.51	18.18	21.26	20.04	18.48
Idaho	2.43	NA	2.93	2.70	2.17	2.49	2.15
Illinois	3.58	3.69	3.89	4.06	3.70	3.58	4.27
Indiana	3.69	3.87	3.98	3.96	3.83	4.21	4.83
Iowa	4.00	4.11	4.83	4.55	3.92	4.34	4.47
Kansas	3.70	4.21	4.69	3.94	4.45	7.03	5.44
Kentucky	3.59	3.88	4.44	3.81	3.74	3.57	3.51
Louisiana	4.52	4.00	4.47	4.33	3.93	3.69	3.50
Maine	8.55	8.00	9.87	8.18	5.09	6.37	7.06
Maryland	4.39	5.02	6.25	4.69	5.52	6.49	6.41
Massachusetts	4.93	NA	6.35	5.32	5.65	10.28	NA
Michigan	3.55	3.48	4.16	3.50	3.34	3.17	3.12
Minnesota	4.45	NA	5.02	4.64	3.61	4.10	NA
Mississippi	4.09	4.24	5.13	4.79	4.24	3.69	3.45
Missouri	3.92	4.40	4.91	4.25	4.60	6.60	7.20
Montana	3.21	NA	3.26	2.75	2.27	NA	3.13
Nebraska	4.29	4.08	4.88	4.41	3.79	4.07	4.53
Nevada	4.25	3.99	5.65	4.70	3.65	3.70	3.01
New Hampshire	7.99	NA	7.29	6.86	4.93	8.57	9.77
New Jersey	4.75	4.63	4.79	4.69	4.55	4.69	4.96
New Mexico	3.45	3.05	3.42	2.82	2.54	2.77	3.25
New York	4.35	4.71	4.55	4.71	5.04	8.30	8.49
North Carolina	3.76	4.13	4.78	4.33	4.59	5.65	5.75
North Dakota	4.13	NA	4.91	4.15	3.39	NA	NA
Ohio	3.99	NA	NA	NA	NA	3.34	2.86
Oklahoma	3.87	NA	NA	3.53	4.01	4.27	4.41
Oregon	3.27	3.90	3.44	4.17	3.94	5.01	5.53
Pennsylvania	4.39	NA	5.14	4.83	4.68	7.17	NA
Rhode Island	2.58	2.37	2.55	2.49	2.46	2.43	2.41
South Carolina	4.45	NA	5.33	NA	4.30	4.15	4.09
South Dakota	4.12	NA	4.83	4.20	3.59	NA	4.68
Tennessee	3.87	4.11	4.77	4.20	3.93	4.12	3.86
Texas	3.60	NA	4.61	4.62	4.90	4.96	4.75
Utah	5.53	NA	5.92	4.53	4.05	3.62	3.29
Vermont	4.56	4.64	4.90	4.56	4.18	4.08	4.07
Virginia	4.23	NA	5.26	4.69	5.50	6.22	6.37
Washington	3.41	NA	NA	NA	3.48	3.63	3.36
West Virginia	3.71	NA	4.10	3.71	4.39	5.36	5.72
Wisconsin	4.20	4.19	4.75	4.28	3.99	4.79	4.55
Wyoming	4.02	3.74	4.09	3.81	3.22	3.24	3.61
Total	4.02	4.21	4.75	4.29	4.07	4.70	4.84

See footnotes at end of table.

Table 19. Average citygate price, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2018						
	July	June	May	April	March	February	January
Alabama	3.81	3.93	3.81	3.57	3.48	NA	3.37
Alaska	6.39	6.43	7.02	6.76	8.00	8.25	8.24
Arizona	3.04	3.23	2.88	3.01	4.18	4.25	4.49
Arkansas	6.20	5.85	4.47	4.47	4.03	3.98	3.85
California	NA	2.67	2.34	2.42	2.76	3.12	2.91
Colorado	4.09	4.04	3.51	3.04	3.31	3.40	3.38
Connecticut	7.92	7.94	7.10	4.72	4.10	5.04	4.85
Delaware	10.70	9.50	8.13	5.40	4.34	4.52	5.18
District of Columbia	--	--	--	--	--	--	--
Florida	7.21	6.48	6.76	NA	6.47	7.85	5.65
Georgia	3.99	3.87	3.79	3.59	3.62	4.56	3.48
Hawaii	20.03	20.87	22.70	21.03	19.73	18.34	18.74
Idaho	2.07	NA	2.39	NA	2.87	2.85	2.67
Illinois	3.43	3.46	4.16	3.33	3.30	3.35	3.91
Indiana	4.67	4.57	4.35	3.25	3.61	3.79	3.97
Iowa	3.77	4.00	3.93	3.44	3.61	4.13	4.06
Kansas	5.05	5.60	5.82	3.64	3.84	3.72	3.71
Kentucky	3.48	3.47	3.86	3.64	3.89	4.08	3.77
Louisiana	3.70	3.64	3.70	3.72	3.94	4.30	4.17
Maine	6.92	6.51	6.09	5.39	6.40	8.95	10.35
Maryland	7.16	6.26	6.61	4.59	3.90	4.55	4.64
Massachusetts	10.96	9.51	6.47	5.35	4.69	3.59	9.36
Michigan	3.15	3.14	3.27	3.05	3.32	3.69	3.38
Minnesota	4.14	4.31	3.40	3.12	3.62	3.92	3.74
Mississippi	3.76	3.84	3.86	3.72	3.92	4.48	4.02
Missouri	7.02	6.61	6.36	3.93	3.71	3.90	3.72
Montana	2.70	2.86	NA	2.94	NA	3.29	3.39
Nebraska	4.26	4.24	3.92	3.10	3.74	3.96	4.04
Nevada	3.40	3.48	3.08	3.34	3.20	3.63	3.76
New Hampshire	9.35	NA	6.11	4.38	5.01	7.91	9.96
New Jersey	4.12	4.65	4.15	4.29	4.34	4.55	5.05
New Mexico	2.93	3.00	2.45	2.41	3.08	3.32	3.17
New York	8.04	7.08	6.08	3.56	3.19	3.41	5.75
North Carolina	6.07	5.78	5.20	3.87	3.26	3.88	3.46
North Dakota	3.20	NA	NA	2.88	NA	4.15	4.24
Ohio	NA	NA	NA	3.45	3.56	NA	3.66
Oklahoma	5.02	4.52	3.66	3.44	3.60	3.69	3.61
Oregon	5.85	4.74	4.88	3.54	3.43	3.47	3.61
Pennsylvania	6.28	5.98	6.13	3.74	4.09	4.19	3.85
Rhode Island	2.39	2.35	2.35	2.33	2.32	2.32	2.25
South Carolina	4.13	4.16	4.20	4.21	3.90	4.22	4.21
South Dakota	4.09	NA	NA	2.91	NA	4.17	3.91
Tennessee	4.13	3.97	3.83	3.58	3.81	4.18	4.08
Texas	4.74	4.71	4.54	NA	5.29	5.42	5.39
Utah	NA	3.86	4.64	5.52	5.54	6.35	5.77
Vermont	3.97	3.77	3.86	4.61	4.75	5.15	5.29
Virginia	6.09	5.95	5.68	4.60	3.62	NA	4.45
Washington	3.64	3.66	3.29	3.00	3.01	3.28	3.19
West Virginia	NA	5.01	4.12	3.47	3.40	3.89	3.36
Wisconsin	4.41	4.62	4.04	3.44	3.75	4.36	4.04
Wyoming	3.28	3.08	3.43	3.26	3.80	3.95	3.91
Total	4.71	4.46	4.13	3.64	3.71	3.99	4.29

See footnotes at end of table.

Table 19. Average citygate price, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017						
	Total	December	November	October	September	August	July
Alabama	3.80	3.42	3.62	3.77	3.67	3.90	4.02
Alaska	7.03	6.94	7.02	6.59	6.29	5.83	5.76
Arizona	4.36	4.36	5.06	3.87	3.93	4.01	4.14
Arkansas	4.70	3.79	4.56	5.40	6.30	6.67	6.72
California	3.45	3.66	3.24	2.95	3.09	3.22	3.47
Colorado	3.90	3.44	3.88	3.96	5.10	4.65	5.09
Connecticut	4.44	3.70	3.71	4.22	5.66	5.79	6.08
Delaware	5.60	4.46	5.19	8.31	10.40	10.64	10.42
District of Columbia	--	--	--	--	--	--	--
Florida	5.77	5.60	6.41	6.32	5.62	5.09	5.77
Georgia	4.15	3.91	3.80	4.08	4.23	4.04	4.20
Hawaii	16.62	17.11	18.23	16.69	17.18	17.63	16.17
Idaho	2.90	2.72	2.90	2.24	2.27	2.41	2.47
Illinois	3.76	3.59	3.55	3.46	4.20	4.13	3.76
Indiana	3.85	3.55	3.71	3.68	4.34	4.74	4.97
Iowa	4.30	4.96	3.90	3.71	3.83	3.87	4.08
Kansas	4.51	3.83	4.24	5.08	6.26	5.72	5.39
Kentucky	3.92	3.74	3.84	3.66	3.70	3.41	3.59
Louisiana	4.02	4.06	3.92	3.91	3.84	3.85	3.99
Maine	6.50	7.90	4.99	6.17	5.66	6.09	7.67
Maryland	4.73	4.10	4.27	5.36	6.79	6.83	6.96
Massachusetts	5.28	5.24	4.60	6.28	8.86	9.24	9.61
Michigan	3.57	3.56	3.47	3.35	3.10	3.09	3.10
Minnesota	4.24	5.61	3.72	3.46	3.17	4.33	4.46
Mississippi	4.39	4.03	4.55	4.45	4.49	4.62	4.66
Missouri	4.63	3.73	4.11	5.02	7.09	7.68	7.26
Montana	3.28	3.20	3.22	2.47	2.35	3.41	2.90
Nebraska	4.31	4.74	3.95	3.71	4.63	4.45	4.17
Nevada	4.13	3.47	4.18	3.73	4.01	4.39	4.50
New Hampshire	5.86	6.87	4.82	5.29	8.23	7.41	8.42
New Jersey	4.27	4.08	3.93	3.60	3.71	4.37	4.61
New Mexico	3.51	3.15	3.41	3.22	3.41	3.60	3.59
New York	4.29	3.90	4.17	5.11	7.08	7.11	7.37
North Carolina	3.92	3.02	3.54	4.42	5.09	5.41	5.83
North Dakota	4.28	4.36	4.17	4.23	4.38	4.03	3.92
Ohio	3.96	4.22	3.89	3.57	4.13	3.93	3.89
Oklahoma	4.52	3.96	4.51	4.84	6.16	5.95	5.87
Oregon	3.90	3.44	3.76	3.75	4.69	5.97	5.71
Pennsylvania	4.26	3.64	4.00	4.47	6.06	6.36	6.69
Rhode Island	2.22	2.22	2.20	2.21	2.29	2.34	2.37
South Carolina	4.13	3.81	3.88	3.93	4.13	3.99	4.14
South Dakota	4.39	5.60	4.11	3.80	4.42	4.36	4.40
Tennessee	4.09	3.88	3.98	4.00	4.20	4.17	4.49
Texas	4.80	4.94	5.32	4.96	4.47	4.09	4.19
Utah	5.30	5.76	5.78	4.95	3.85	3.70	3.69
Vermont	5.03	5.07	4.70	4.56	4.48	4.44	4.31
Virginia	4.53	3.92	4.00	4.99	6.26	7.41	7.24
Washington	3.51	3.21	3.32	2.79	3.93	4.78	4.21
West Virginia	3.86	3.52	3.61	3.88	4.89	5.87	5.58
Wisconsin	4.24	3.90	4.25	4.21	4.59	4.55	4.76
Wyoming	3.92	3.83	4.01	3.82	3.45	3.82	3.98
Total	4.16	4.00	3.97	4.03	4.52	4.61	4.73

See footnotes at end of table.

Table 19. Average citygate price, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017					
	June	May	April	March	February	January
Alabama	3.96	4.02	3.73	3.66	4.18	4.03
Alaska	5.69	6.02	6.96	7.42	7.54	7.99
Arizona	4.14	3.75	3.98	4.95	4.71	4.37
Arkansas	6.85	5.73	5.83	4.35	4.37	4.17
California	3.55	3.38	3.31	3.15	3.59	3.87
Colorado	4.68	3.98	3.66	3.65	3.91	3.92
Connecticut	6.58	5.85	4.97	3.53	4.45	4.45
Delaware	9.94	7.65	6.85	4.26	4.62	4.34
District of Columbia	--	--	--	--	--	--
Florida	5.16	5.24	6.21	5.70	5.96	6.09
Georgia	4.28	4.18	4.29	3.72	4.43	4.69
Hawaii	15.06	16.46	16.05	17.38	16.20	15.34
Idaho	3.29	3.04	2.71	3.31	3.14	3.17
Illinois	3.63	3.48	4.15	4.06	3.56	3.95
Indiana	4.87	4.28	4.25	3.72	3.89	3.81
Iowa	4.52	4.10	4.36	4.08	4.42	4.51
Kansas	6.61	5.86	4.81	3.99	4.18	4.24
Kentucky	3.73	4.05	4.46	3.83	4.19	4.16
Louisiana	4.37	4.08	3.94	3.96	4.37	3.91
Maine	5.46	5.00	5.30	5.54	7.58	7.36
Maryland	7.19	6.25	6.06	4.05	4.69	4.43
Massachusetts	9.04	6.38	5.46	4.06	4.53	4.66
Michigan	3.35	3.43	3.78	3.48	3.71	3.84
Minnesota	4.49	3.80	3.51	3.77	4.23	4.30
Mississippi	4.78	4.59	3.95	3.88	4.20	5.02
Missouri	7.15	5.86	5.15	4.07	4.45	4.21
Montana	3.30	3.61	3.47	3.54	3.56	3.46
Nebraska	5.07	4.20	4.02	3.87	4.71	4.30
Nevada	4.52	4.13	4.40	4.05	4.34	4.46
New Hampshire	5.39	5.50	4.64	4.37	6.07	6.59
New Jersey	4.73	4.56	4.26	4.32	4.48	4.52
New Mexico	3.61	3.43	3.31	3.35	3.82	3.93
New York	7.02	6.00	4.24	3.27	3.64	3.85
North Carolina	5.87	5.28	4.91	3.36	3.72	3.87
North Dakota	4.35	3.99	4.11	3.88	4.53	4.58
Ohio	3.82	3.80	3.87	3.64	4.08	4.09
Oklahoma	5.90	5.44	4.64	4.22	4.26	4.46
Oregon	5.08	4.56	3.90	3.59	3.59	3.69
Pennsylvania	6.67	5.36	4.85	3.86	4.20	4.07
Rhode Island	2.41	2.36	2.30	2.20	2.18	2.12
South Carolina	4.25	4.27	4.47	3.98	4.43	4.47
South Dakota	4.60	3.77	3.90	3.79	4.38	4.35
Tennessee	4.28	4.07	4.40	3.91	4.16	4.24
Texas	4.28	4.59	4.43	4.85	5.14	5.28
Utah	4.90	4.79	4.78	5.94	5.97	5.37
Vermont	4.74	4.69	5.26	4.98	5.69	5.67
Virginia	6.71	5.68	5.47	4.03	4.15	3.90
Washington	4.18	4.26	3.64	3.04	3.47	3.77
West Virginia	6.37	4.87	4.26	3.32	3.68	3.63
Wisconsin	5.24	4.24	4.08	3.82	4.39	4.46
Wyoming	3.79	3.24	3.71	3.89	4.23	4.27
Total	4.82	4.42	4.20	3.84	4.13	4.21

^R Revised data.

-- Not applicable.

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. Prices in this table represent the average price of natural gas by state at the point where the gas is transferred from a pipeline to a local distribution company within the state. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 20. Average price of natural gas sold to residential consumers, by state, 2017-2019
(dollars per thousand cubic feet)

State	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Alabama	14.48	14.37	14.86	18.59	15.52	14.35	13.85
Alaska	10.52	10.87	9.76	11.59	11.06	10.39	10.29
Arizona	12.36	14.76	14.12	16.13	14.28	12.01	11.65
Arkansas	10.55	11.09	11.93	14.84	11.08	9.94	9.84
California	13.52	12.10	12.77	12.99	13.31	13.64	13.43
Colorado	7.63	7.15	7.57	8.68	8.15	7.60	7.52
Connecticut	13.97	NA	13.13	17.05	15.29	13.72	13.35
Delaware	10.84	NA	11.46	15.77	11.67	10.60	10.07
District of Columbia	12.19	11.01	11.65	15.72	12.87	11.42	11.70
Florida	19.87	19.60	19.21	23.10	21.28	20.73	18.31
Georgia	13.46	12.61	14.80	23.74	15.92	12.46	12.59
Hawaii	44.23	42.15	38.04	47.85	48.74	43.69	42.74
Idaho	6.21	NA	7.63	7.56	6.84	6.09	5.95
Illinois	7.46	7.35	8.41	10.36	8.48	7.10	7.19
Indiana	7.90	7.84	8.65	12.37	9.63	7.54	7.36
Iowa	7.83	7.89	8.11	10.92	8.54	7.79	7.31
Kansas	NA	9.78	10.22	15.06	NA	8.15	7.90
Kentucky	9.63	9.51	10.87	19.69	12.01	8.63	9.18
Louisiana	10.12	NA	12.29	13.91	10.91	9.94	8.74
Maine	16.07	NA	13.74	16.19	16.26	15.76	16.41
Maryland	11.85	10.80	12.19	15.85	14.33	11.45	11.18
Massachusetts	14.89	NA	13.08	14.77	15.25	14.77	14.67
Michigan	7.75	7.83	8.10	9.74	8.49	7.66	7.51
Minnesota	8.00	NA	8.12	8.70	8.07	7.63	7.92
Mississippi	9.79	9.15	11.01	13.66	10.33	9.33	9.25
Missouri	9.14	9.08	9.94	14.10	10.64	8.55	8.42
Montana	NA	NA	7.22	NA	6.98	6.44	6.52
Nebraska	7.67	7.57	8.03	10.09	8.28	6.95	7.14
Nevada	8.08	8.69	7.70	11.45	9.93	7.87	7.43
New Hampshire	15.37	14.63	13.12	15.70	14.81	14.66	15.51
New Jersey	9.36	8.63	8.47	10.37	9.23	9.38	9.34
New Mexico	NA	7.38	8.35	7.31	NA	7.18	6.43
New York	11.86	11.22	10.99	14.03	12.10	10.88	11.47
North Carolina	NA	11.22	13.04	NA	15.63	10.49	12.53
North Dakota	6.26	6.26	6.85	8.15	6.62	5.80	5.85
Ohio	8.10	7.63	8.42	14.60	9.90	7.44	7.25
Oklahoma	7.70	7.83	9.36	15.47	10.52	7.03	6.96
Oregon	9.53	10.55	10.10	12.52	11.06	9.15	8.46
Pennsylvania	11.21	10.68	10.52	14.82	13.41	10.96	10.54
Rhode Island	14.82	14.58	13.00	16.15	15.14	14.57	14.48
South Carolina	NA	NA	14.21	NA	13.86	11.52	11.47
South Dakota	6.93	NA	7.49	7.74	7.17	6.61	6.73
Tennessee	8.71	8.70	9.54	14.32	9.77	8.05	8.38
Texas	8.95	10.34	11.54	15.29	10.51	8.25	8.27
Utah	7.63	NA	8.74	7.58	7.69	7.57	7.72
Vermont	12.21	12.49	12.89	13.71	12.65	11.97	11.77
Virginia	11.74	10.63	11.40	17.63	13.14	11.47	11.45
Washington	9.04	10.18	10.24	11.52	10.11	8.94	8.34
West Virginia	9.34	NA	8.67	13.20	10.28	9.17	9.00
Wisconsin	7.28	7.50	7.99	7.78	7.33	7.33	7.14
Wyoming	7.41	8.06	8.35	8.84	7.79	7.01	7.25
Total	9.90	9.78	10.19	12.86	10.92	9.48	9.47

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2017-2019

(dollars per thousand cubic feet) – continued

State	2019						2018
	January	Total	December	November	October	September	August
Alabama	13.78	15.15	13.72	15.47	21.79	22.08	21.90
Alaska	10.14	11.00	10.18	10.39	11.02	12.23	13.06
Arizona	11.66	NA	12.28	14.16	18.44	20.97	NA
Arkansas	10.72	11.65	9.93	10.21	16.74	20.97	21.64
California	13.87	NA	13.08	11.93	12.16	12.30	NA
Colorado	7.17	7.67	6.25	6.65	7.93	13.17	14.62
Connecticut	13.17	NA	13.45	13.18	16.50	22.39	23.72
Delaware	10.52	NA	10.84	12.89	20.85	NA	24.29
District of Columbia	12.23	11.78	11.25	12.09	16.83	18.47	19.11
Florida	18.16	21.56	19.63	23.82	27.03	26.09	27.70
Georgia	11.98	14.84	11.68	12.27	23.01	29.61	29.63
Hawaii	38.92	43.48	42.94	43.42	48.05	47.36	43.50
Idaho	5.99	NA	5.91	6.10	6.99	9.31	10.33
Illinois	6.86	8.16	7.30	6.92	9.84	17.47	19.09
Indiana	7.27	NA	8.16	7.77	10.65	NA	19.42
Iowa	7.47	8.93	8.37	8.72	12.29	18.67	18.83
Kansas	8.31	NA	NA	7.73	12.32	18.83	22.58
Kentucky	8.80	NA	9.07	9.08	13.51	NA	24.87
Louisiana	10.18	NA	9.85	11.76	16.90	16.62	17.41
Maine	15.84	NA	16.80	14.52	15.73	23.71	24.72
Maryland	11.15	11.75	11.78	11.13	14.17	20.80	21.01
Massachusetts	15.06	NA	15.16	13.40	13.28	16.02	16.56
Michigan	7.31	8.19	7.78	7.43	8.25	12.34	13.39
Minnesota	8.12	NA	8.72	7.88	8.85	12.31	14.97
Mississippi	9.55	10.22	9.52	10.38	16.41	16.67	17.72
Missouri	8.77	10.26	9.16	9.76	16.75	23.40	24.89
Montana	6.68	NA	6.72	6.97	7.76	10.50	11.60
Nebraska	8.15	8.52	8.23	8.67	11.39	17.45	17.79
Nevada	7.26	9.24	7.46	8.49	11.01	13.47	14.46
New Hampshire	16.16	15.35	15.45	14.83	18.70	22.78	22.73
New Jersey	9.21	9.11	9.14	9.51	9.91	12.05	12.66
New Mexico	6.48	NA	7.65	NA	10.65	13.45	13.09
New York	12.24	12.38	11.66	12.18	17.16	20.16	20.83
North Carolina	11.42	NA	11.03	10.82	17.24	NA	NA
North Dakota	6.32	7.20	6.48	6.59	8.21	17.48	21.42
Ohio	7.38	9.14	8.00	8.27	12.62	25.54	27.80
Oklahoma	6.28	9.22	6.28	9.24	19.57	25.14	26.63
Oregon	9.60	10.81	9.83	9.79	11.33	14.07	16.88
Pennsylvania	10.43	NA	NA	10.32	13.23	19.34	20.44
Rhode Island	14.70	NA	14.87	16.25	20.36	NA	NA
South Carolina	10.76	NA	10.89	10.59	20.65	27.98	26.56
South Dakota	7.01	NA	7.31	7.92	8.88	15.04	15.86
Tennessee	8.34	NA	8.25	8.77	14.77	18.96	NA
Texas	8.19	NA	8.69	10.75	16.96	22.08	NA
Utah	7.58	NA	7.58	7.50	8.67	10.23	10.44
Vermont	12.01	13.41	12.24	13.27	16.70	21.78	23.26
Virginia	10.81	11.67	11.33	11.89	15.93	19.64	20.61
Washington	8.75	10.28	8.73	9.10	10.60	13.27	15.81
West Virginia	8.91	NA	8.96	9.22	10.96	17.79	18.80
Wisconsin	7.23	8.05	8.25	7.53	7.89	12.55	14.53
Wyoming	7.13	8.65	7.04	7.98	10.49	16.79	17.45
Total	9.43	10.52	9.63	9.43	12.26	17.31	18.63

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2018						
	July	June	May	April	March	February	January
Alabama	21.93	21.00	17.27	15.07	15.29	14.15	13.38
Alaska	13.77	12.73	11.85	11.29	10.77	10.62	10.59
Arizona	22.69	21.27	19.20	16.78	14.22	13.97	13.76
Arkansas	21.08	19.74	14.02	11.47	12.06	10.82	10.08
California	12.36	12.14	12.42	11.60	12.26	12.09	12.11
Colorado	17.23	14.43	10.47	7.39	7.31	6.61	6.60
Connecticut	22.33	19.93	NA	13.17	12.75	12.69	12.02
Delaware	23.32	20.31	14.91	12.22	11.64	11.84	NA
District of Columbia	18.51	14.51	12.42	10.79	11.32	11.32	10.31
Florida	26.56	24.53	23.12	20.48	20.07	18.77	18.08
Georgia	27.63	27.65	21.53	14.10	13.01	12.42	10.55
Hawaii	45.44	41.62	44.49	42.51	42.16	42.05	39.90
Idaho	10.35	9.55	9.17	7.70	7.08	NA	7.33
Illinois	18.98	15.17	12.61	7.57	7.25	6.91	6.66
Indiana	20.19	18.83	15.37	8.06	7.55	7.99	6.90
Iowa	19.70	15.09	10.94	7.89	8.11	7.84	7.35
Kansas	21.99	18.46	15.31	11.90	10.05	8.90	8.70
Kentucky	25.01	24.49	18.47	9.65	9.21	9.68	8.53
Louisiana	16.97	15.97	13.37	12.33	NA	9.92	8.72
Maine	25.84	20.22	17.01	15.58	NA	16.46	14.65
Maryland	19.57	18.38	14.33	10.31	9.79	11.85	10.40
Massachusetts	15.82	14.57	16.69	17.69	NA	16.21	14.22
Michigan	13.52	13.49	11.94	7.93	7.60	7.74	7.41
Minnesota	15.40	12.97	NA	7.75	NA	8.72	7.84
Mississippi	17.53	16.68	12.91	9.99	10.78	9.08	7.68
Missouri	24.11	22.21	13.57	9.69	9.42	8.56	8.11
Montana	10.20	9.11	7.71	7.11	NA	6.95	7.00
Nebraska	15.56	15.72	10.00	7.71	7.72	7.42	6.94
Nevada	13.86	12.72	11.55	9.92	8.24	8.15	8.12
New Hampshire	21.07	17.88	16.60	15.68	15.51	13.93	13.28
New Jersey	12.11	11.30	9.26	7.74	8.76	8.63	8.87
New Mexico	12.79	11.23	9.32	7.94	7.28	7.06	7.08
New York	20.11	19.32	14.20	11.29	12.10	11.23	9.51
North Carolina	NA	NA	20.40	13.12	10.40	13.44	9.72
North Dakota	20.79	15.45	8.71	6.49	6.09	5.95	5.85
Ohio	26.49	25.45	14.97	8.10	7.30	7.61	6.45
Oklahoma	25.69	22.84	12.34	9.00	7.97	7.37	6.72
Oregon	15.10	14.21	13.66	11.10	9.85	9.81	10.85
Pennsylvania	19.76	17.96	14.14	10.80	10.45	10.86	10.02
Rhode Island	27.60	20.69	17.80	16.34	14.83	13.45	13.13
South Carolina	29.36	NA	NA	13.49	10.57	15.91	NA
South Dakota	14.73	11.80	8.05	6.98	NA	6.89	6.86
Tennessee	19.68	18.42	11.80	9.10	9.03	8.74	7.89
Texas	21.64	20.20	16.22	12.92	11.17	9.61	8.84
Utah	10.24	10.26	9.44	NA	NA	10.08	9.40
Vermont	21.61	18.72	14.02	12.31	12.93	11.80	12.37
Virginia	20.51	18.27	14.22	10.95	9.38	11.63	10.04
Washington	14.98	13.36	12.99	10.34	9.93	9.62	10.18
West Virginia	18.19	17.75	NA	9.63	9.27	9.27	8.94
Wisconsin	14.06	12.39	10.22	6.93	7.33	7.65	7.38
Wyoming	16.08	13.01	9.55	8.45	7.82	7.80	7.65
Total	17.92	16.51	13.64	10.04	9.78	9.64	8.91

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017						
	Total	December	November	October	September	August	July
Alabama	16.11	14.72	16.97	22.17	22.63	22.97	22.15
Alaska	10.52	10.66	10.65	11.17	12.13	13.39	13.72
Arizona	15.78	14.43	17.54	20.10	22.25	23.41	22.74
Arkansas	12.97	11.81	12.80	19.52	20.36	21.39	20.16
California	12.49	11.76	11.41	12.10	12.28	12.53	12.55
Colorado	8.08	6.84	7.39	8.44	12.16	13.78	14.70
Connecticut	13.95	11.94	13.42	19.83	21.74	22.65	22.04
Delaware	12.84	12.44	14.34	22.06	22.02	24.65	22.84
District of Columbia	12.53	10.47	13.14	18.88	19.33	21.24	18.15
Florida	21.15	19.69	22.42	24.92	24.47	26.57	25.36
Georgia	16.93	11.23	14.39	22.07	31.00	32.32	32.42
Hawaii	38.88	39.57	39.91	39.77	39.98	40.28	39.99
Idaho	7.65	6.82	7.15	7.43	9.46	10.87	11.26
Illinois	8.83	6.81	7.47	10.49	16.81	17.86	16.90
Indiana	8.94	6.56	7.77	10.47	17.64	20.65	20.06
Iowa	9.30	8.52	9.68	13.37	18.63	17.36	17.65
Kansas	10.95	9.02	8.98	14.20	21.05	22.57	21.69
Kentucky	11.62	9.03	10.65	14.80	22.54	24.81	24.49
Louisiana	13.04	10.76	13.25	16.52	16.49	17.30	16.44
Maine	14.61	13.59	14.14	18.92	23.14	24.48	23.45
Maryland	12.97	11.46	12.12	18.42	20.14	21.61	20.23
Massachusetts	13.32	13.78	12.74	12.26	15.45	15.95	15.46
Michigan	8.38	7.30	7.66	9.50	12.19	13.79	14.46
Minnesota	8.47	7.91	7.73	8.93	11.95	13.40	13.36
Mississippi	11.83	9.72	11.40	16.62	18.00	18.07	17.37
Missouri	11.78	9.87	12.26	22.34	25.33	27.73	26.50
Montana	7.62	7.42	7.47	8.21	10.53	11.64	10.99
Nebraska	9.01	7.91	8.69	14.15	17.19	17.53	16.79
Nevada	8.82	8.26	9.97	11.06	12.81	14.10	13.23
New Hampshire	14.55	14.36	16.92	22.75	24.80	25.25	22.46
New Jersey	9.14	9.53	10.00	11.24	11.55	12.08	11.86
New Mexico	9.22	8.05	9.02	12.87	14.89	15.78	15.10
New York	12.04	10.52	13.07	17.16	18.12	19.05	19.13
North Carolina	13.29	10.70	11.93	19.66	22.88	23.14	22.49
North Dakota	7.64	6.05	6.47	9.09	15.60	20.47	21.82
Ohio	9.72	7.02	8.78	15.19	23.38	27.28	26.34
Oklahoma	11.40	8.65	11.14	24.54	26.70	29.06	25.92
Oregon	10.59	9.77	10.43	11.18	14.68	16.69	15.42
Pennsylvania	11.40	10.38	11.33	16.27	17.48	20.04	19.34
Rhode Island	14.02	14.01	15.34	19.30	19.93	20.19	19.15
South Carolina	14.57	11.48	12.83	19.35	25.03	26.44	24.68
South Dakota	8.18	7.55	7.66	11.01	14.40	14.62	14.52
Tennessee	10.31	8.66	10.32	16.00	17.18	19.34	18.74
Texas	13.61	11.91	14.66	20.64	21.76	23.39	20.93
Utah	9.05	9.76	9.14	8.22	10.38	11.21	10.88
Vermont	14.12	13.22	15.43	19.84	21.13	22.39	21.62
Virginia	12.34	10.54	11.89	20.00	20.71	22.04	20.79
Washington	10.62	9.66	10.22	10.92	13.81	16.05	15.38
West Virginia	9.43	9.00	9.41	11.26	14.16	17.51	18.81
Wisconsin	8.40	7.51	7.87	9.12	13.59	14.31	15.03
Wyoming	9.01	7.97	8.45	9.55	15.05	17.86	17.26
Total	10.91	9.29	10.15	13.36	16.92	18.22	17.86

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017					
	June	May	April	March	February	January
Alabama	21.14	20.57	16.19	14.51	14.69	13.50
Alaska	12.79	11.00	10.23	9.58	9.61	9.44
Arizona	20.48	18.19	16.82	15.32	12.66	12.70
Arkansas	18.25	15.66	14.02	12.52	11.81	10.40
California	13.14	12.96	12.51	12.41	12.65	13.10
Colorado	12.67	9.17	8.04	7.92	7.44	6.86
Connecticut	18.83	16.62	13.81	12.30	13.18	12.39
Delaware	18.85	16.02	12.07	11.34	11.04	10.65
District of Columbia	16.92	16.24	12.27	11.67	10.92	10.93
Florida	24.01	22.19	19.77	19.42	18.38	17.71
Georgia	29.52	27.26	18.21	13.69	13.57	11.84
Hawaii	37.63	39.21	38.06	38.69	37.91	36.66
Idaho	10.46	8.32	8.02	8.08	7.53	7.23
Illinois	15.32	11.11	10.22	7.95	8.39	7.58
Indiana	19.15	11.89	11.67	7.74	8.64	7.68
Iowa	14.96	10.83	8.95	7.71	7.98	7.62
Kansas	19.45	18.15	12.84	10.01	9.83	8.50
Kentucky	23.98	18.07	13.70	10.39	10.88	9.23
Louisiana	15.43	14.89	13.56	12.71	12.30	10.89
Maine	17.86	14.97	14.11	13.03	13.70	13.71
Maryland	18.91	16.53	14.62	10.86	12.26	11.35
Massachusetts	13.48	13.63	13.22	12.90	13.11	12.91
Michigan	13.24	9.89	9.22	7.77	7.98	7.59
Minnesota	12.48	9.69	8.44	7.63	8.06	8.05
Mississippi	16.11	15.02	12.82	10.64	10.67	10.02
Missouri	21.51	15.45	12.35	10.48	9.32	8.27
Montana	9.59	8.08	7.51	7.38	7.29	6.73
Nebraska	14.15	10.36	8.70	7.87	7.93	7.38
Nevada	11.62	10.63	8.99	7.76	7.10	6.96
New Hampshire	16.35	14.31	12.22	12.75	13.60	13.26
New Jersey	10.28	9.66	8.31	8.65	8.16	8.36
New Mexico	12.74	10.44	9.03	8.07	8.16	7.86
New York	16.28	14.45	11.10	10.81	11.04	9.86
North Carolina	23.15	19.75	17.86	11.65	13.82	11.72
North Dakota	19.59	13.01	7.59	6.46	6.79	5.93
Ohio	23.63	14.49	10.25	7.73	8.15	7.13
Oklahoma	21.84	15.91	13.17	10.28	8.78	7.13
Oregon	14.30	12.23	10.98	10.67	9.89	9.16
Pennsylvania	16.79	13.12	11.68	10.33	10.32	9.70
Rhode Island	16.38	15.11	13.18	12.79	12.72	12.58
South Carolina	24.33	21.98	17.13	11.79	15.05	13.40
South Dakota	12.01	9.06	7.73	7.46	7.80	6.89
Tennessee	16.89	14.15	10.96	9.62	9.29	8.55
Texas	18.54	17.09	15.59	12.25	10.61	9.56
Utah	9.56	8.35	9.15	9.18	8.78	8.40
Vermont	18.03	15.03	12.94	12.53	12.47	12.79
Virginia	18.59	17.62	13.56	10.54	11.78	9.99
Washington	14.64	12.02	10.66	10.24	10.04	9.75
West Virginia	14.75	11.56	9.55	8.47	8.39	8.19
Wisconsin	12.99	8.98	9.03	7.49	7.56	8.05
Wyoming	12.41	10.07	9.32	8.51	8.09	7.51
Total	16.06	13.26	11.34	9.86	10.01	9.32

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. Average prices for gas delivered to residential consumers reflect onsystem sales prices, with the following exception: Residential price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of total residential, total commercial, and total industrial deliveries.

Sources: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

Table 21. Average price of natural gas sold to commercial consumers, by state, 2017-2019
(dollars per thousand cubic feet)

State	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Alabama	11.55	11.86	11.61	12.04	11.78	11.51	11.43
Alaska	NA	9.97	9.25	NA	NA	NA	9.20
Arizona	7.36	9.22	8.66	7.47	7.36	7.27	7.38
Arkansas	7.79	8.05	8.08	8.68	7.80	7.60	7.62
California	9.83	8.61	9.25	8.41	9.50	10.48	9.88
Colorado	6.99	6.54	6.88	7.11	7.08	7.10	7.04
Connecticut	9.65	8.58	9.06	10.91	10.48	9.44	9.35
Delaware	NA	NA	9.76	11.08	9.64	NA	9.17
District of Columbia	11.37	NA	10.62	11.79	11.83	11.02	11.14
Florida	NA	11.60	10.87	11.96	NA	11.50	11.58
Georgia	8.44	7.96	8.74	8.58	8.13	7.77	7.91
Hawaii	31.13	31.18	26.94	34.09	34.63	30.95	29.57
Idaho	NA	NA	6.68	5.83	5.62	5.29	NA
Illinois	6.79	6.66	7.70	9.25	7.54	6.38	6.64
Indiana	6.74	7.01	7.60	8.88	7.82	6.46	6.44
Iowa	6.25	NA	6.50	7.00	6.13	6.30	5.96
Kansas	NA	8.70	9.08	10.36	NA	7.23	7.16
Kentucky	8.13	7.97	8.73	11.52	9.45	7.55	7.88
Louisiana	8.45	NA	9.17	8.53	8.20	8.24	8.02
Maine	13.44	NA	11.22	12.05	13.13	13.29	13.95
Maryland	NA	9.11	10.00	NA	11.89	9.38	10.36
Massachusetts	12.14	NA	10.14	11.62	12.18	12.21	12.01
Michigan	6.68	6.71	6.92	7.60	7.05	6.62	6.55
Minnesota	6.97	NA	6.84	6.74	6.59	6.62	7.19
Mississippi	8.79	NA	8.94	8.76	8.51	8.57	8.77
Missouri	7.27	7.46	7.79	8.34	7.44	7.12	6.97
Montana	NA	NA	7.10	NA	6.76	6.34	6.37
Nebraska	6.32	6.20	6.35	5.73	5.95	5.87	6.36
Nevada	5.60	6.36	5.21	6.68	6.19	5.36	5.24
New Hampshire	12.34	12.38	11.02	12.51	11.75	11.77	12.56
New Jersey	9.09	8.80	9.07	8.29	7.86	9.00	9.14
New Mexico	NA	5.56	6.31	NA	NA	5.27	5.04
New York	NA	7.54	7.09	7.17	7.22	7.52	7.94
North Carolina	8.84	7.79	9.24	9.54	9.35	7.69	9.53
North Dakota	5.70	NA	5.91	5.55	5.41	5.46	5.70
Ohio	5.92	5.64	6.09	6.60	5.87	5.67	5.78
Oklahoma	6.36	6.39	7.27	10.95	8.46	6.02	5.90
Oregon	7.83	8.64	8.58	8.68	8.23	7.70	7.39
Pennsylvania	NA	9.25	8.85	NA	10.00	9.37	9.22
Rhode Island	12.36	12.09	10.50	13.46	12.44	12.21	12.13
South Carolina	8.72	NA	9.54	8.31	8.57	8.33	8.97
South Dakota	5.46	NA	5.97	5.46	5.24	5.20	5.45
Tennessee	7.97	8.14	8.56	8.96	7.93	7.53	8.14
Texas	6.02	7.17	7.44	6.54	5.88	5.83	6.01
Utah	6.36	7.94	7.37	5.76	6.27	6.42	6.50
Vermont	6.68	7.12	7.59	6.24	6.68	6.57	6.65
Virginia	8.44	7.91	7.85	8.31	9.04	8.10	8.59
Washington	6.87	NA	8.11	7.57	7.34	6.74	6.61
West Virginia	7.82	7.88	7.21	9.60	8.31	7.69	7.69
Wisconsin	6.26	6.32	6.67	5.30	5.79	6.33	6.40
Wyoming	6.04	6.78	6.87	6.27	6.05	5.86	6.10
Total	7.68	7.72	7.81	8.12	7.77	7.47	7.61

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2019						2018
	January	Total	December	November	October	September	August
Alabama	11.39	11.92	11.43	11.73	12.34	12.42	12.50
Alaska	9.36	9.97	9.30	9.58	9.87	10.60	10.84
Arizona	7.36	NA	7.65	8.00	8.52	NA	NA
Arkansas	7.88	8.06	7.57	7.60	7.88	8.65	9.08
California	10.39	NA	10.07	NA	7.63	8.40	NA
Colorado	6.76	NA	5.98	6.20	6.74	9.20	NA
Connecticut	9.11	9.20	9.22	8.84	10.16	11.04	10.73
Delaware	9.09	NA	8.61	NA	13.16	NA	13.66
District of Columbia	11.52	NA	10.87	11.14	10.61	10.79	10.62
Florida	NA	NA	11.19	11.49	11.25	12.02	NA
Georgia	9.33	8.07	7.36	8.04	8.56	9.03	8.76
Hawaii	26.65	31.16	28.99	30.65	33.41	32.51	29.91
Idaho	5.31	NA	5.27	5.35	5.44	6.39	6.64
Illinois	6.36	7.25	6.61	6.42	8.18	12.72	13.52
Indiana	6.47	NA	7.14	6.90	7.24	NA	10.68
Iowa	6.37	NA	7.17	6.91	6.88	NA	8.76
Kansas	7.74	8.71	7.59	6.94	9.01	12.50	12.97
Kentucky	7.71	8.39	7.79	7.69	9.38	10.67	12.36
Louisiana	9.16	NA	8.76	8.50	8.68	8.05	8.15
Maine	13.79	NA	14.40	12.06	11.06	12.61	13.57
Maryland	9.09	NA	9.61	9.28	NA	NA	10.63
Massachusetts	12.37	NA	12.59	10.48	9.23	10.53	10.65
Michigan	6.46	NA	6.81	6.50	7.08	8.87	9.10
Minnesota	7.25	NA	NA	6.65	6.02	7.54	8.46
Mississippi	9.13	NA	9.11	8.79	8.75	7.77	8.19
Missouri	7.35	7.85	7.49	8.02	9.54	10.00	10.33
Montana	6.57	NA	6.53	6.68	7.27	9.11	9.31
Nebraska	7.18	6.39	7.03	6.48	6.41	6.86	6.82
Nevada	5.38	6.34	5.53	5.74	6.42	7.02	7.20
New Hampshire	13.03	12.72	12.77	11.71	13.97	16.90	16.76
New Jersey	9.85	NA	9.91	9.27	8.45	9.33	9.37
New Mexico	5.16	NA	6.10	NA	6.07	6.18	5.95
New York	NA	7.39	7.79	7.05	6.93	6.74	6.86
North Carolina	8.83	NA	8.60	8.38	8.35	NA	NA
North Dakota	6.15	NA	6.17	5.77	5.65	7.05	7.37
Ohio	6.09	5.99	6.13	5.85	6.40	7.54	7.77
Oklahoma	5.28	7.07	5.19	7.30	12.40	14.15	13.82
Oregon	7.93	8.63	8.04	8.07	8.67	9.39	10.11
Pennsylvania	8.76	9.42	8.94	8.77	9.97	10.94	11.96
Rhode Island	12.30	12.98	12.42	14.07	17.84	19.23	18.98
South Carolina	9.05	NA	NA	8.52	9.15	9.12	8.87
South Dakota	5.83	NA	6.07	6.18	6.02	7.51	7.84
Tennessee	7.90	8.35	7.98	7.77	8.89	9.73	10.18
Texas	6.07	7.21	6.33	6.50	7.46	8.05	8.27
Utah	6.41	7.37	6.38	6.08	6.27	6.61	6.70
Vermont	6.98	6.65	7.27	6.55	5.71	5.52	5.34
Virginia	8.39	8.14	8.43	8.13	8.29	8.98	8.58
Washington	6.73	NA	6.81	6.90	7.82	8.53	NA
West Virginia	7.56	8.09	7.63	7.73	8.55	10.20	9.97
Wisconsin	6.49	6.42	7.16	6.43	5.67	6.43	6.87
Wyoming	6.05	6.62	5.75	6.09	6.75	7.32	7.18
Total	7.75	7.83	7.77	7.35	7.71	8.64	8.74

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2018						
	July	June	May	April	March	February	January
Alabama	12.52	12.43	12.18	12.33	11.93	11.87	11.47
Alaska	11.43	10.84	10.51	10.16	9.89	9.88	9.82
Arizona	9.14	9.38	9.44	9.23	9.16	9.13	9.20
Arkansas	8.98	9.07	8.45	7.91	8.44	8.03	7.80
California	8.35	7.76	7.76	7.99	8.91	9.16	8.93
Colorado	10.72	8.95	8.34	6.42	6.74	6.20	6.26
Connecticut	11.07	11.37	11.38	8.58	8.44	8.37	7.91
Delaware	NA	NA	11.25	10.22	NA	10.03	NA
District of Columbia	10.65	9.20	10.16	10.24	NA	11.10	9.87
Florida	11.54	11.69	11.52	11.44	11.34	11.88	11.74
Georgia	9.31	9.00	8.54	8.46	7.90	8.00	7.64
Hawaii	31.69	30.90	33.05	31.93	30.74	32.37	28.30
Idaho	6.86	NA	6.89	6.47	6.18	NA	6.52
Illinois	14.15	12.29	10.72	6.78	6.54	6.34	6.18
Indiana	11.68	10.71	11.07	7.01	6.77	7.34	6.36
Iowa	8.98	7.92	7.06	6.16	6.48	NA	6.21
Kansas	13.32	12.31	11.81	9.81	9.15	8.19	7.95
Kentucky	12.70	12.85	10.86	8.03	8.06	7.99	7.38
Louisiana	8.39	8.50	8.37	8.56	NA	8.89	8.47
Maine	13.50	12.13	12.12	12.74	12.94	NA	12.68
Maryland	9.90	11.28	10.32	8.97	8.32	10.11	8.82
Massachusetts	10.31	9.99	13.29	14.99	NA	12.94	11.60
Michigan	NA	9.12	8.18	6.70	6.61	6.77	6.48
Minnesota	8.51	7.94	NA	6.26	NA	7.56	6.82
Mississippi	8.45	8.23	8.55	8.07	NA	8.42	7.61
Missouri	10.30	9.96	7.87	7.72	7.66	7.21	7.31
Montana	9.03	8.49	7.43	6.94	NA	6.81	6.95
Nebraska	6.51	6.40	5.66	5.87	6.44	6.52	6.09
Nevada	7.22	7.19	6.91	6.59	6.23	6.23	6.21
New Hampshire	16.42	13.77	13.76	13.50	13.25	11.84	11.15
New Jersey	NA	9.12	8.34	7.33	9.22	9.42	8.92
New Mexico	6.71	5.12	5.04	5.46	5.64	5.59	5.71
New York	7.05	7.21	7.41	7.23	7.90	7.89	7.25
North Carolina	10.02	NA	9.44	8.49	7.32	8.10	7.40
North Dakota	7.40	6.64	NA	5.41	5.59	5.76	5.98
Ohio	7.97	7.24	6.72	5.64	5.53	5.66	5.46
Oklahoma	14.52	11.82	8.52	7.23	6.40	6.17	5.79
Oregon	9.72	9.46	9.38	8.90	8.29	8.14	9.03
Pennsylvania	12.33	11.80	10.91	9.68	8.96	9.47	8.80
Rhode Island	18.44	16.76	14.43	13.64	12.55	11.15	10.88
South Carolina	9.35	9.06	8.67	8.79	8.50	10.25	NA
South Dakota	7.60	6.55	NA	5.46	NA	5.60	5.85
Tennessee	9.98	9.48	8.49	7.89	8.19	8.31	8.01
Texas	8.21	7.93	7.79	7.38	7.35	7.12	6.77
Utah	6.62	6.95	7.16	7.68	7.78	8.47	8.02
Vermont	5.56	5.27	6.01	6.54	6.88	7.48	7.80
Virginia	8.90	8.68	8.62	8.06	7.36	8.79	7.53
Washington	9.31	NA	8.50	NA	7.94	8.07	8.30
West Virginia	10.36	10.44	9.60	8.00	7.79	7.89	7.63
Wisconsin	6.54	5.82	6.00	5.65	6.22	6.73	6.48
Wyoming	6.99	7.04	6.92	6.95	6.69	6.77	6.68
Total	8.93	8.65	8.46	7.66	7.74	7.82	7.43

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017						
	Total	December	November	October	September	August	July
Alabama	12.03	11.83	12.18	12.61	12.97	13.08	13.11
Alaska	9.79	9.89	10.00	10.33	11.00	11.50	11.62
Arizona	8.97	9.17	9.44	9.40	9.35	9.50	9.22
Arkansas	8.34	8.33	8.55	8.61	8.68	9.24	9.27
California	8.76	8.64	8.00	7.78	7.95	8.31	8.40
Colorado	7.17	6.62	6.87	7.25	9.22	9.16	9.53
Connecticut	9.30	7.96	8.71	10.64	10.73	11.16	10.98
Delaware	10.37	10.35	10.88	12.52	11.82	13.39	12.79
District of Columbia	10.87	10.10	11.03	11.17	11.37	12.14	12.26
Florida	10.97	10.90	11.17	11.15	11.06	11.09	10.97
Georgia	8.78	8.13	8.53	9.02	9.33	9.71	9.37
Hawaii	27.41	28.25	28.45	27.38	28.06	28.56	27.37
Idaho	6.62	6.22	6.30	6.28	7.16	7.18	7.63
Illinois	7.78	6.16	6.59	7.90	12.09	13.60	12.43
Indiana	7.52	5.93	6.78	7.28	9.96	11.61	11.35
Iowa	6.87	6.96	6.51	6.52	9.05	9.29	9.56
Kansas	9.36	8.24	7.99	9.97	13.94	13.17	13.40
Kentucky	9.06	7.75	8.71	10.16	11.83	12.81	11.99
Louisiana	8.99	9.00	8.84	8.71	8.77	8.75	8.80
Maine	11.33	11.35	10.75	11.58	12.33	12.77	13.06
Maryland	10.27	9.39	9.84	12.05	12.59	12.49	11.30
Massachusetts	10.16	10.86	9.79	8.71	10.12	10.35	10.37
Michigan	7.02	6.40	6.61	7.57	8.47	9.65	9.15
Minnesota	6.80	6.53	6.23	6.48	7.44	8.08	7.72
Mississippi	8.82	8.58	8.73	8.59	9.24	8.69	8.69
Missouri	8.44	8.16	9.18	10.55	10.65	11.19	11.00
Montana	7.42	7.39	7.24	7.72	8.82	9.67	9.64
Nebraska	6.37	6.19	6.10	6.48	6.78	6.93	7.08
Nevada	5.71	6.06	6.40	6.48	6.50	6.75	6.40
New Hampshire	11.71	11.83	12.78	15.10	16.06	16.06	15.28
New Jersey	9.14	9.27	9.47	9.12	8.66	9.47	9.84
New Mexico	6.59	6.19	7.25	7.60	7.41	7.43	7.56
New York	6.87	6.93	6.64	6.50	6.02	5.95	6.64
North Carolina	8.92	8.11	8.54	8.83	9.05	8.88	8.63
North Dakota	6.00	5.89	5.67	5.93	6.48	7.15	7.65
Ohio	6.11	5.31	5.48	6.54	7.44	7.81	7.75
Oklahoma	8.44	6.89	8.63	14.71	15.16	16.05	14.86
Oregon	8.74	8.28	8.57	8.84	9.84	10.44	10.05
Pennsylvania	9.16	8.74	8.79	10.34	11.10	11.53	11.94
Rhode Island	11.30	11.35	12.45	15.04	15.45	15.73	15.38
South Carolina	9.30	9.45	9.30	8.56	9.05	8.86	9.04
South Dakota	6.26	6.74	5.97	5.96	7.51	7.68	7.63
Tennessee	8.74	8.24	8.80	9.47	9.38	9.65	9.56
Texas	7.71	7.78	7.72	8.22	8.35	8.37	8.19
Utah	7.40	8.26	7.34	6.44	7.07	7.40	7.28
Vermont	7.04	7.19	6.17	6.07	6.04	6.06	6.29
Virginia	7.99	7.57	7.89	8.42	8.59	9.00	8.76
Washington	8.30	7.93	8.15	8.35	9.15	9.86	9.48
West Virginia	7.65	7.66	7.86	8.56	8.93	9.37	9.54
Wisconsin	6.60	6.54	6.49	5.84	6.92	6.85	7.02
Wyoming	6.92	6.61	6.74	6.96	7.41	7.45	7.65
Total	7.88	7.42	7.51	7.97	8.52	8.76	8.81

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017					
	June	May	April	March	February	January
Alabama	12.80	12.73	12.18	11.49	11.36	11.15
Alaska	11.02	9.75	9.40	9.12	9.18	9.16
Arizona	9.03	8.96	9.10	8.94	8.33	8.29
Arkansas	9.16	8.79	8.56	8.25	8.13	7.59
California	8.74	8.68	8.81	9.47	9.34	9.60
Colorado	9.01	7.28	6.98	7.10	6.92	6.57
Connecticut	10.69	10.74	9.24	8.33	9.51	8.61
Delaware	11.67	10.95	9.94	9.76	9.61	9.44
District of Columbia	12.26	11.58	11.06	11.06	10.66	9.47
Florida	11.06	11.00	10.86	10.93	11.04	10.58
Georgia	9.80	9.39	9.11	8.55	8.86	8.40
Hawaii	26.30	26.98	26.98	27.41	27.16	26.22
Idaho	7.47	7.14	7.18	6.96	6.62	6.36
Illinois	12.52	11.00	9.14	7.25	7.59	6.90
Indiana	11.47	9.05	9.61	6.87	7.72	7.07
Iowa	8.98	7.77	6.84	6.12	6.40	6.41
Kansas	12.88	12.74	9.98	9.14	8.99	8.21
Kentucky	12.54	11.28	10.29	8.61	8.81	7.71
Louisiana	8.85	8.83	8.69	9.08	9.41	9.55
Maine	11.42	10.94	11.23	10.83	11.34	11.55
Maryland	12.16	11.76	11.48	9.18	9.98	9.54
Massachusetts	9.36	10.21	10.27	10.04	10.20	10.05
Michigan	9.00	7.92	7.31	6.80	6.86	6.65
Minnesota	8.10	7.04	6.80	6.36	6.94	7.08
Mississippi	8.47	8.84	8.93	8.68	9.09	9.03
Missouri	9.78	8.99	8.36	8.12	7.60	7.24
Montana	8.84	7.82	7.26	7.20	7.24	6.70
Nebraska	6.54	6.59	5.94	6.30	6.61	6.29
Nevada	5.90	5.85	5.38	5.14	5.02	5.09
New Hampshire	12.45	11.49	10.15	10.63	11.68	11.26
New Jersey	8.98	8.83	7.91	9.04	9.06	9.68
New Mexico	7.08	6.56	6.17	6.07	6.51	6.28
New York	6.87	6.90	6.99	7.14	7.51	6.82
North Carolina	9.94	10.69	10.16	8.35	9.88	8.67
North Dakota	7.57	6.52	5.68	5.67	6.32	5.74
Ohio	7.75	6.78	6.18	5.86	6.10	6.03
Oklahoma	13.30	11.40	9.56	7.91	6.88	5.94
Oregon	10.19	9.37	9.04	8.90	8.45	8.10
Pennsylvania	11.60	10.56	9.47	8.89	8.58	8.32
Rhode Island	13.10	12.02	10.63	10.42	10.45	10.02
South Carolina	8.95	8.64	9.66	8.59	10.15	10.31
South Dakota	7.41	6.26	5.83	5.77	6.43	5.77
Tennessee	9.41	9.13	8.76	8.50	8.56	8.33
Texas	7.70	7.57	7.62	7.19	7.51	7.40
Utah	6.83	6.51	7.47	7.71	7.48	7.29
Vermont	6.12	6.94	7.57	7.35	7.61	8.08
Virginia	9.18	9.07	8.05	7.19	8.45	7.44
Washington	9.40	7.68	8.27	8.22	8.22	8.03
West Virginia	9.48	8.28	7.71	7.09	7.02	6.97
Wisconsin	6.68	6.06	6.93	6.37	6.47	7.05
Wyoming	7.41	7.13	7.10	6.96	6.97	6.56
Total	8.75	8.31	8.04	7.68	7.89	7.58

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. Average prices for gas delivered to commercial consumers reflect onsystem sales prices, with the following exception: Commercial price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of total residential, total commercial, and total industrial deliveries.

Sources: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

Table 22. Average price of natural gas sold to industrial consumers, by state, 2017-2019
(dollars per thousand cubic feet)

State	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Alabama	4.13	4.29	4.46	3.61	3.86	4.12	4.29
Alaska	5.98	5.44	5.03	5.65	5.67	6.10	6.18
Arizona	4.80	NA	6.13	3.49	4.85	5.08	5.29
Arkansas	6.58	6.78	6.67	6.24	6.30	6.61	6.66
California	8.33	7.00	7.71	6.83	7.88	9.03	8.64
Colorado	5.80	5.13	5.44	5.73	5.46	5.76	6.07
Connecticut	7.32	6.58	6.96	7.32	7.40	7.52	7.22
Delaware	9.60	10.16	9.28	12.52	10.24	9.12	9.23
District of Columbia	--	--	--	--	--	--	--
Florida	6.13	6.57	6.24	5.45	5.49	6.32	6.45
Georgia	4.67	4.60	4.85	4.08	4.44	4.50	4.84
Hawaii	21.31	21.74	19.19	23.32	22.20	20.85	20.51
Idaho	3.61	4.17	4.53	3.61	3.60	3.64	3.62
Illinois	NA	NA	6.15	NA	6.14	NA	5.28
Indiana	5.86	6.09	6.07	6.23	5.92	5.75	5.72
Iowa	5.08	NA	5.06	4.52	4.71	5.32	5.11
Kansas	5.46	4.79	5.28	4.38	5.06	5.91	6.56
Kentucky	4.40	NA	4.64	3.87	4.03	3.81	5.26
Louisiana	3.94	3.44	3.83	3.19	3.41	3.59	4.30
Maine	10.41	10.51	8.95	6.85	10.69	10.89	11.02
Maryland	9.12	7.88	9.61	8.70	10.42	8.76	10.05
Massachusetts	10.20	11.08	8.33	9.23	10.45	10.09	10.33
Michigan	6.01	5.91	5.94	6.47	6.18	5.87	6.04
Minnesota	4.73	NA	4.68	4.10	4.07	4.46	5.03
Mississippi	NA	5.05	5.26	NA	NA	5.15	5.73
Missouri	6.39	6.73	6.78	5.65	6.16	6.40	6.41
Montana	6.06	6.62	6.60	5.82	6.12	5.95	6.17
Nebraska	4.66	4.65	4.73	3.91	4.45	4.23	4.84
Nevada	4.98	5.60	4.54	5.86	5.42	4.88	4.54
New Hampshire	10.09	NA	9.42	8.07	9.29	9.38	11.24
New Jersey	8.11	8.15	7.81	6.48	6.86	7.83	8.32
New Mexico	3.47	NA	5.10	2.23	3.06	4.25	4.86
New York	8.89	7.90	7.36	7.95	8.29	8.67	9.32
North Carolina	NA	NA	6.45	5.78	5.87	NA	7.12
North Dakota	3.21	3.19	3.11	2.28	2.62	3.26	3.65
Ohio	6.39	NA	6.51	6.41	6.22	6.34	6.61
Oklahoma	2.83	2.51	3.50	2.14	2.19	2.81	3.19
Oregon	NA	5.26	5.33	NA	4.53	4.87	5.02
Pennsylvania	8.44	NA	8.02	8.53	8.63	8.35	8.23
Rhode Island	9.79	NA	8.39	10.17	10.02	9.62	9.59
South Carolina	NA	4.93	4.99	NA	4.75	4.85	5.01
South Dakota	NA	4.60	5.11	4.62	4.29	NA	4.75
Tennessee	5.30	5.31	5.26	4.40	5.01	5.25	5.57
Texas	3.21	3.19	3.36	2.84	2.94	3.03	3.26
Utah	5.22	6.00	5.75	4.41	5.06	5.52	5.41
Vermont	NA	4.58	5.42	4.03	4.32	4.43	4.48
Virginia	5.17	5.03	5.09	4.52	4.87	5.00	4.92
Washington	NA	7.57	7.41	6.61	6.50	6.44	6.31
West Virginia	3.48	3.42	3.11	2.92	3.21	3.55	3.54
Wisconsin	5.33	5.19	5.67	4.37	4.75	5.60	5.39
Wyoming	4.01	4.12	4.26	3.90	3.68	3.87	4.27
Total	4.38	4.23	4.32	3.65	4.02	4.33	4.65

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2019						2018
	January	Total	December	November	October	September	August
Alabama	4.63	4.29	5.38	4.59	4.06	3.98	3.88
Alaska	6.09	5.69	5.73	6.00	5.96	6.00	5.87
Arizona	5.24	NA	5.26	4.63	6.01	5.64	NA
Arkansas	6.87	6.79	6.67	6.78	6.68	6.68	7.05
California	9.15	NA	8.61	6.99	6.11	7.04	NA
Colorado	5.78	NA	4.70	4.87	5.19	NA	6.24
Connecticut	7.20	6.63	7.48	6.53	6.39	6.15	6.37
Delaware	9.47	NA	9.09	11.09	11.53	NA	10.79
District of Columbia	--	--	--	--	--	--	--
Florida	6.90	NA	NA	5.98	6.02	NA	6.66
Georgia	5.38	NA	6.02	4.74	4.41	4.41	4.29
Hawaii	19.59	22.62	22.29	24.11	24.18	23.38	22.37
Idaho	3.57	3.98	3.57	3.62	3.49	4.09	4.06
Illinois	5.39	NA	5.36	NA	5.60	6.34	7.23
Indiana	5.94	NA	6.25	6.17	5.22	NA	7.31
Iowa	5.40	NA	6.34	5.80	5.04	5.36	4.78
Kansas	7.09	4.56	7.28	6.58	5.44	4.57	4.30
Kentucky	5.16	NA	5.19	4.46	4.28	3.99	3.84
Louisiana	5.07	3.42	3.96	3.57	3.35	3.16	3.43
Maine	11.00	9.24	11.05	10.63	5.87	5.78	5.79
Maryland	8.61	NA	9.40	8.43	7.95	NA	9.02
Massachusetts	10.50	9.90	10.66	8.69	6.72	6.63	7.48
Michigan	5.93	6.04	6.18	5.95	6.25	6.59	7.02
Minnesota	5.37	NA	5.40	4.80	4.48	4.47	4.50
Mississippi	NA	5.00	5.79	5.13	4.87	4.53	4.71
Missouri	6.83	NA	NA	6.28	5.86	5.76	5.65
Montana	6.19	6.37	6.06	6.17	5.95	6.05	5.81
Nebraska	5.70	4.53	5.11	4.51	4.41	4.35	4.33
Nevada	4.59	5.44	4.48	4.79	5.00	5.80	5.91
New Hampshire	11.54	NA	11.42	8.92	6.98	6.93	7.77
New Jersey	9.33	NA	NA	7.54	NA	6.88	NA
New Mexico	4.97	NA	4.40	4.20	4.24	3.48	3.07
New York	9.52	7.81	8.18	7.24	7.04	7.29	7.40
North Carolina	7.26	NA	6.57	6.29	5.91	5.67	5.90
North Dakota	4.31	3.23	4.77	3.85	2.90	2.78	2.78
Ohio	6.29	NA	6.07	6.40	NA	NA	NA
Oklahoma	3.72	NA	4.53	2.59	2.23	2.08	2.29
Oregon	4.91	5.15	4.96	5.05	5.07	5.12	5.14
Pennsylvania	8.60	NA	7.52	8.29	8.47	9.60	9.38
Rhode Island	9.70	NA	9.72	10.57	11.37	11.12	10.97
South Carolina	5.78	4.90	6.09	5.34	4.54	4.57	4.32
South Dakota	5.23	NA	5.29	4.63	NA	5.72	5.46
Tennessee	5.92	5.05	5.97	5.00	4.55	4.41	4.38
Texas	3.91	3.39	4.83	3.84	3.47	3.19	2.99
Utah	5.55	5.49	5.80	5.03	4.66	4.73	4.71
Vermont	NA	4.55	5.24	4.72	4.35	4.30	4.26
Virginia	6.23	5.14	6.20	4.77	5.19	4.99	5.36
Washington	NA	NA	6.14	6.49	7.09	NA	NA
West Virginia	4.08	3.51	4.80	4.05	3.31	3.18	3.15
Wisconsin	5.76	5.14	6.72	5.79	4.60	3.78	3.98
Wyoming	4.19	3.90	3.68	3.83	4.34	3.66	3.49
Total	5.04	4.20	5.46	4.51	4.04	3.75	3.67

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2018						
	July	June	May	April	March	February	January
Alabama	3.90	3.89	3.90	3.90	3.93	4.90	4.75
Alaska	6.01	5.34	5.54	4.92	5.29	5.57	5.68
Arizona	6.45	6.50	6.50	NA	6.99	7.04	6.64
Arkansas	7.08	6.70	6.55	6.61	7.09	6.83	6.77
California	6.43	6.09	6.08	6.35	7.43	7.46	7.53
Colorado	6.64	6.55	5.45	4.88	5.22	5.15	5.06
Connecticut	6.61	6.91	6.95	6.52	6.57	6.57	6.43
Delaware	NA	NA	11.06	9.59	9.88	10.07	10.58
District of Columbia	--	--	--	--	--	--	--
Florida	5.93	5.51	6.38	6.49	6.84	5.87	7.36
Georgia	4.38	NA	4.38	4.61	4.45	5.19	4.42
Hawaii	23.04	23.32	23.05	22.04	21.57	21.71	20.32
Idaho	4.20	4.12	4.22	4.18	4.08	4.14	4.25
Illinois	6.99	5.97	5.37	4.88	5.02	NA	5.17
Indiana	7.39	6.56	6.42	6.09	5.84	5.87	6.38
Iowa	4.45	4.32	4.36	5.17	5.27	NA	5.53
Kansas	4.30	4.32	4.35	4.58	4.71	6.91	7.19
Kentucky	3.88	3.84	3.97	4.07	4.35	NA	4.46
Louisiana	3.14	3.29	3.44	2.99	3.64	3.47	3.74
Maine	6.41	6.30	6.81	11.17	11.71	11.69	9.71
Maryland	8.97	NA	8.47	7.95	7.50	7.75	8.13
Massachusetts	7.15	7.37	10.19	12.84	11.89	11.05	9.64
Michigan	6.20	6.75	6.27	5.89	5.96	5.96	5.76
Minnesota	4.48	4.49	NA	4.08	4.34	5.30	4.82
Mississippi	4.80	4.63	4.59	4.72	5.25	5.29	5.24
Missouri	5.80	5.63	5.97	6.96	6.79	6.73	6.83
Montana	5.65	6.19	6.21	6.80	6.55	6.38	7.02
Nebraska	4.20	3.82	3.84	4.23	5.15	4.95	4.90
Nevada	6.14	6.33	5.95	5.64	5.57	5.48	5.48
New Hampshire	7.86	NA	10.84	NA	NA	9.39	9.62
New Jersey	6.82	NA	6.51	6.65	8.90	8.79	8.39
New Mexico	NA	NA	NA	3.68	4.54	4.82	4.89
New York	7.94	8.06	7.96	7.92	8.51	7.90	7.38
North Carolina	5.81	5.88	6.03	6.16	5.95	6.53	NA
North Dakota	2.72	2.65	2.65	2.57	2.71	4.06	3.78
Ohio	NA	7.44	6.65	6.11	6.23	NA	NA
Oklahoma	2.35	NA	1.99	1.66	2.49	3.29	3.10
Oregon	5.19	4.93	5.05	5.09	5.36	5.39	5.35
Pennsylvania	9.82	9.36	8.60	8.44	8.49	NA	8.09
Rhode Island	11.63	11.46	11.41	NA	10.14	8.75	8.62
South Carolina	4.65	4.39	4.33	4.38	4.67	5.40	6.08
South Dakota	5.55	4.76	4.36	4.21	4.83	4.74	4.67
Tennessee	4.61	4.45	4.68	4.92	5.28	5.96	5.57
Texas	3.19	3.22	3.10	2.98	2.87	3.78	3.32
Utah	4.64	5.19	5.32	5.86	6.14	6.33	6.25
Vermont	4.22	4.14	4.18	4.22	4.33	5.00	5.08
Virginia	5.00	4.91	5.05	4.66	5.04	5.33	5.07
Washington	NA	NA	7.67	7.51	7.60	7.62	7.49
West Virginia	3.25	3.17	3.14	3.07	3.10	4.36	3.40
Wisconsin	3.92	4.26	3.98	4.20	5.25	6.13	5.66
Wyoming	3.22	3.22	3.89	4.27	4.17	4.20	4.02
Total	3.76	3.78	3.81	3.90	4.02	4.86	4.48

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017						
	Total	December	November	October	September	August	July
Alabama	4.24	4.31	4.11	3.92	3.89	3.93	4.07
Alaska	4.63	4.73	4.59	4.02	3.63	3.16	3.04
Arizona	6.47	6.57	6.92	6.72	6.77	7.26	6.49
Arkansas	6.67	6.48	6.62	6.63	6.66	7.03	6.74
California	7.05	7.14	6.38	6.09	6.24	6.43	6.59
Colorado	5.58	5.04	5.18	7.00	5.77	5.91	6.35
Connecticut	6.48	6.12	6.08	5.97	6.38	6.03	5.90
Delaware	9.91	10.51	12.01	10.38	10.08	13.21	13.50
District of Columbia	--	--	--	--	--	--	--
Florida	6.17	5.82	6.20	6.26	6.11	6.36	5.99
Georgia	4.68	4.61	4.38	4.53	4.68	4.60	4.45
Hawaii	19.62	22.24	20.83	21.09	19.75	18.87	18.57
Idaho	4.44	4.38	4.02	4.35	4.42	4.47	4.48
Illinois	5.76	4.86	4.99	5.10	5.75	6.44	7.17
Indiana	5.99	4.85	5.34	5.43	7.01	7.98	7.11
Iowa	5.21	5.55	5.12	5.06	5.33	5.18	5.43
Kansas	4.16	5.71	4.94	4.51	3.88	3.76	3.83
Kentucky	4.46	4.54	4.26	4.26	4.15	4.18	4.27
Louisiana	3.64	3.35	3.41	3.53	3.46	3.55	3.62
Maine	8.15	9.59	9.29	5.26	5.30	5.42	6.34
Maryland	9.84	9.71	9.25	10.79	11.22	10.67	11.28
Massachusetts	8.02	8.96	7.77	5.63	7.20	7.26	7.46
Michigan	5.97	5.64	5.96	6.02	6.94	6.73	6.47
Minnesota	4.48	4.66	4.05	4.40	4.24	4.19	4.14
Mississippi	5.07	5.08	4.86	4.89	4.91	4.80	5.02
Missouri	6.64	6.84	6.96	6.43	6.03	6.24	6.21
Montana	6.60	7.41	6.55	6.49	6.38	5.70	6.66
Nebraska	4.54	4.45	4.28	4.21	4.38	4.32	4.40
Nevada	5.06	5.21	5.48	5.65	5.69	6.03	5.74
New Hampshire	9.09	10.03	8.92	7.66	7.99	7.58	7.81
New Jersey	7.92	8.06	8.05	8.62	8.32	8.19	7.82
New Mexico	5.06	5.37	5.30	5.15	4.87	4.95	4.87
New York	7.21	7.20	6.71	6.44	6.17	6.82	8.04
North Carolina	6.24	6.29	6.02	5.89	6.09	6.07	6.04
North Dakota	3.15	3.97	3.12	2.89	3.78	2.82	2.85
Ohio	6.71	6.24	6.42	7.24	8.04	7.85	8.69
Oklahoma	3.30	3.13	2.94	3.02	2.87	3.13	3.46
Oregon	5.31	5.18	5.28	5.17	5.19	5.50	5.41
Pennsylvania	8.38	8.91	8.95	9.16	9.13	9.36	10.50
Rhode Island	8.48	8.62	8.45	8.41	8.59	8.74	8.74
South Carolina	4.86	5.17	4.54	4.58	4.71	4.56	4.98
South Dakota	5.09	4.87	4.61	5.35	6.04	5.64	5.62
Tennessee	5.04	5.22	4.95	4.69	4.70	4.66	4.77
Texas	3.28	3.22	2.98	3.12	3.21	3.19	3.40
Utah	5.51	6.02	5.45	5.15	5.13	5.12	5.20
Vermont	4.92	4.71	4.40	4.42	4.48	4.47	4.51
Virginia	5.04	5.15	4.64	4.69	4.92	5.22	4.94
Washington	7.39	7.45	7.34	7.11	7.22	7.42	7.73
West Virginia	3.21	4.12	4.07	3.03	2.80	2.85	2.90
Wisconsin	5.34	5.60	5.54	4.46	4.66	4.54	4.24
Wyoming	4.28	4.21	4.25	4.36	4.38	4.35	4.39
Total	4.10	4.21	3.85	3.79	3.84	3.79	3.93

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017					
	June	May	April	March	February	January
Alabama	4.21	4.18	4.25	4.08	4.70	5.07
Alaska	4.96	4.96	5.02	5.13	4.99	5.06
Arizona	6.86	6.31	6.18	5.95	6.04	6.18
Arkansas	6.69	6.53	6.80	6.63	6.69	6.73
California	7.01	7.05	7.19	7.71	7.96	8.38
Colorado	6.08	5.66	5.19	5.60	5.48	5.37
Connecticut	5.80	6.41	6.28	6.69	8.06	7.21
Delaware	10.22	9.81	9.07	9.57	9.11	8.93
District of Columbia	--	--	--	--	--	--
Florida	6.07	6.09	5.98	6.51	6.46	6.13
Georgia	4.67	4.64	4.74	4.29	5.12	5.48
Hawaii	19.10	19.60	18.83	19.22	19.69	18.66
Idaho	4.59	4.44	4.57	4.52	4.59	4.52
Illinois	6.70	6.78	6.31	5.87	6.15	6.12
Indiana	7.93	6.32	7.03	5.69	6.08	5.82
Iowa	5.51	5.31	5.06	4.69	5.14	5.22
Kansas	4.01	4.74	4.67	5.08	6.88	6.75
Kentucky	4.48	4.37	4.42	4.34	4.90	5.14
Louisiana	3.74	3.32	3.14	3.59	4.56	4.52
Maine	6.48	6.61	9.28	9.27	9.35	9.33
Maryland	11.91	10.56	11.53	8.52	9.82	9.49
Massachusetts	7.10	8.76	8.28	8.17	8.44	8.23
Michigan	6.40	6.36	6.10	5.89	5.99	5.77
Minnesota	4.44	4.23	4.40	4.42	4.86	5.15
Mississippi	4.84	4.92	4.62	5.28	5.92	5.47
Missouri	6.02	6.04	6.45	6.95	7.12	6.88
Montana	6.50	6.53	6.00	6.81	6.90	6.54
Nebraska	4.44	4.33	4.33	4.81	5.23	4.73
Nevada	5.48	5.15	4.61	4.47	4.38	4.36
New Hampshire	7.14	7.98	8.88	9.13	10.27	10.13
New Jersey	8.37	7.03	6.81	7.07	8.67	8.11
New Mexico	4.88	4.81	4.61	5.02	5.91	5.57
New York	7.78	7.20	7.85	7.49	7.45	6.91
North Carolina	5.97	6.07	6.35	6.34	6.65	6.66
North Dakota	2.95	2.81	2.89	2.66	3.45	3.96
Ohio	9.21	8.06	6.54	5.85	6.56	6.87
Oklahoma	3.39	3.22	3.21	2.93	3.82	4.22
Oregon	5.39	5.28	5.29	5.43	5.39	5.25
Pennsylvania	8.99	8.22	8.68	8.01	7.92	7.79
Rhode Island	8.43	8.55	8.67	8.39	8.34	8.06
South Carolina	4.83	4.69	4.83	4.46	5.14	5.78
South Dakota	5.20	5.22	4.57	5.01	5.36	5.20
Tennessee	4.94	4.86	4.93	5.03	5.61	5.76
Texas	3.51	3.37	3.34	2.81	3.43	3.84
Utah	5.04	5.14	5.70	5.87	5.98	6.03
Vermont	4.68	4.78	5.04	5.34	5.67	6.02
Virginia	5.41	5.04	4.87	4.67	5.61	5.38
Washington	7.38	7.52	7.52	7.35	7.59	7.19
West Virginia	2.85	2.92	2.90	3.16	3.46	3.11
Wisconsin	4.74	4.69	5.82	5.34	5.55	6.32
Wyoming	4.24	3.96	4.24	4.37	4.52	4.18
Total	4.06	4.03	4.13	3.94	4.56	4.87

-- Not applicable.

NA Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. Average prices for gas delivered to industrial consumers reflect onsystem sales prices only. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of total residential, total commercial, and total industrial deliveries.

Sources: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2017-2019
(dollars per thousand cubic feet)

State	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Alabama	W	W	W	W	W	W	W
Alaska	7.77	8.21	8.09	7.87	7.87	7.72	7.72
Arizona	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W
California	W	W	W	2.88	3.28	4.53	W
Colorado	W	W	W	W	W	W	W
Connecticut	4.40	5.95	W	2.53	2.78	4.10	5.34
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	W	W	W	W
Georgia	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--
Idaho	14.17	3.32	--	24.46	--	40.19	8.54
Illinois	W	W	W	2.54	2.65	W	W
Indiana	W	W	W	2.80	2.79	W	W
Iowa	3.69	2.92	3.99	2.47	2.55	2.75	7.22
Kansas	3.37	3.08	4.10	2.46	2.68	5.76	3.93
Kentucky	W	W	W	W	W	W	W
Louisiana	W	W	W	W	W	W	W
Maine	W	W	W	--	W	W	W
Maryland	W	W	4.21	3.02	3.12	3.50	3.71
Massachusetts	W	W	W	W	4.71	5.22	W
Michigan	3.11	3.18	3.37	2.75	2.83	3.33	3.08
Minnesota	W	W	W	W	3.08	W	W
Mississippi	W	W	W	W	W	W	W
Missouri	W	W	3.08	W	W	W	W
Montana	2.20	1.58	2.28	1.60	0.87	2.98	2.77
Nebraska	3.60	4.14	4.98	2.86	3.64	4.02	3.83
Nevada	3.97	2.96	3.82	2.67	3.02	4.36	5.13
New Hampshire	W	W	W	W	W	W	W
New Jersey	3.50	3.66	3.53	2.61	2.60	3.71	3.99
New Mexico	1.53	2.70	3.71	0.57	0.51	1.48	2.28
New York	4.00	4.64	4.21	2.59	2.76	3.90	4.46
North Carolina	W	W	W	W	W	W	W
North Dakota	4.40	7.74	5.17	3.70	2.68	4.39	4.77
Ohio	2.94	3.01	3.30	2.55	2.68	3.09	2.92
Oklahoma	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W
Pennsylvania	2.92	3.39	3.26	2.40	2.50	2.84	3.01
Rhode Island	W	W	W	W	W	W	W
South Carolina	W	W	W	3.25	3.45	3.55	W
South Dakota	--	--	--	--	--	--	--
Tennessee	3.14	3.02	3.16	2.82	3.31	3.11	3.09
Texas	2.75	3.10	3.23	2.43	2.48	2.83	2.82
Utah	4.01	2.90	W	2.34	3.12	4.22	5.49
Vermont	--	--	--	--	--	--	--
Virginia	W	W	W	3.27	3.49	3.87	W
Washington	W	W	4.45	W	W	W	W
West Virginia	W	W	W	W	W	3.58	3.30
Wisconsin	3.27	3.31	W	2.63	2.82	3.45	3.64
Wyoming	W	W	W	W	W	W	3.10
Total	3.49	3.77	3.74	2.86	2.98	3.59	3.79

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2019						2018
	January	Total	December	November	October	September	August
Alabama	W	W	W	W	W	W	W
Alaska	7.72	8.03	7.72	7.72	7.72	7.72	7.72
Arizona	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W
California	W	4.77	6.34	W	3.78	3.58	5.88
Colorado	W	W	W	W	W	W	W
Connecticut	7.12	4.74	7.41	5.37	3.67	3.21	3.22
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	W	W	W	W
Georgia	W	W	W	W	W	3.55	W
Hawaii	--	--	--	--	--	--	--
Idaho	3.48	3.60	5.43	4.93	--	2.86	2.69
Illinois	3.92	3.29	W	W	3.50	3.11	3.15
Indiana	3.44	3.44	W	W	3.54	3.28	3.24
Iowa	3.12	3.02	3.81	3.61	3.26	2.90	3.12
Kansas	4.00	3.33	5.54	4.20	4.06	3.01	3.23
Kentucky	W	W	W	W	W	W	W
Louisiana	W	W	W	W	W	W	W
Maine	--	W	--	W	W	W	W
Maryland	W	4.00	W	4.44	3.38	3.38	3.47
Massachusetts	W	5.00	W	5.75	W	3.05	3.21
Michigan	3.53	3.41	4.36	4.35	3.72	3.37	3.40
Minnesota	W	W	6.08	W	W	W	W
Mississippi	W	W	W	W	W	W	W
Missouri	W	W	W	W	W	W	W
Montana	1.79	1.36	1.19	1.56	1.01	1.41	1.04
Nebraska	4.01	3.96	5.22	4.82	4.15	3.93	3.66
Nevada	4.53	3.28	6.45	4.03	2.96	2.82	3.37
New Hampshire	W	W	W	W	W	W	W
New Jersey	4.58	3.25	3.99	3.80	2.76	2.63	2.94
New Mexico	2.72	2.53	2.42	2.51	2.35	2.19	2.45
New York	5.76	3.85	5.42	4.44	3.20	3.01	3.21
North Carolina	W	W	W	W	W	W	W
North Dakota	6.16	5.49	6.65	8.85	4.67	5.16	3.17
Ohio	3.40	3.27	4.23	4.17	3.36	3.04	3.03
Oklahoma	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W
Pennsylvania	3.66	3.12	3.92	3.83	2.74	2.55	2.80
Rhode Island	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W	W
South Dakota	--	--	--	--	--	--	--
Tennessee	3.50	3.14	4.35	3.88	3.27	2.92	2.87
Texas	3.21	3.17	3.87	3.81	3.29	2.97	3.05
Utah	4.49	3.23	5.92	4.16	2.89	2.73	2.87
Vermont	--	--	--	--	--	--	--
Virginia	W	4.40	W	4.60	3.67	3.23	3.37
Washington	W	W	W	W	W	W	W
West Virginia	3.66	W	5.07	W	W	W	W
Wisconsin	3.72	3.32	3.97	3.96	3.39	3.05	3.04
Wyoming	W	W	W	W	W	2.96	W
Total	4.16	3.68	4.89	4.32	3.50	3.21	3.39

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2018						
	July	June	May	April	March	February	January
Alabama	W	W	W	W	W	W	W
Alaska	7.76	7.76	7.76	7.76	8.44	8.44	8.44
Arizona	W	W	W	W	W	3.33	W
Arkansas	W	W	W	W	W	W	W
California	7.92	3.36	2.88	3.06	W	3.72	3.79
Colorado	W	W	W	W	W	W	W
Connecticut	3.04	2.79	2.74	3.92	4.25	7.69	11.06
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	W	W	W	W
Georgia	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--
Idaho	2.63	2.27	--	--	--	3.32	--
Illinois	3.10	2.90	3.17	W	W	W	4.90
Indiana	3.07	3.14	3.10	W	W	W	4.32
Iowa	2.78	2.79	2.63	2.84	2.54	2.65	4.17
Kansas	3.27	2.95	2.67	3.10	3.03	3.46	4.32
Kentucky	W	W	W	W	W	W	W
Louisiana	W	W	W	W	W	W	W
Maine	W	--	W	W	W	W	W
Maryland	3.34	3.47	3.56	3.27	3.24	W	W
Massachusetts	2.90	2.84	2.47	5.54	4.27	W	14.30
Michigan	3.20	3.18	2.98	3.11	2.86	2.99	3.97
Minnesota	W	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W	W
Missouri	W	W	W	W	W	W	W
Montana	1.26	1.01	1.14	1.26	1.68	1.82	2.06
Nebraska	3.24	3.37	3.05	3.94	4.53	4.74	6.76
Nevada	3.08	2.60	2.40	2.76	2.91	3.39	3.37
New Hampshire	W	W	W	W	W	W	W
New Jersey	2.71	2.70	2.52	2.90	2.95	3.07	7.90
New Mexico	2.59	2.64	2.18	2.04	2.59	3.06	4.18
New York	3.09	2.95	2.82	3.19	3.50	5.50	8.21
North Carolina	W	W	W	W	W	W	W
North Dakota	5.63	5.39	2.24	5.50	2.74	16.91	15.38
Ohio	2.98	2.95	2.76	2.87	2.72	2.96	3.63
Oklahoma	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W
Pennsylvania	2.62	2.53	2.44	2.65	2.66	3.36	5.92
Rhode Island	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	3.68	W
South Dakota	--	--	--	--	--	--	--
Tennessee	2.73	2.91	2.61	2.59	2.77	3.17	3.61
Texas	2.95	3.01	2.87	2.84	2.75	2.90	4.07
Utah	2.73	2.61	2.49	2.54	2.89	3.39	3.19
Vermont	--	--	--	--	--	--	--
Virginia	3.23	3.29	3.24	3.50	W	W	W
Washington	W	W	W	W	W	W	W
West Virginia	W	W	W	W	W	W	W
Wisconsin	2.96	3.10	2.96	3.24	2.92	3.38	3.99
Wyoming	W	W	W	W	W	W	W
Total	3.41	3.21	3.15	3.25	3.32	3.74	5.35

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State							2017
	Total	December	November	October	September	August	July
Alabama	W	W	W	W	W	W	W
Alaska	8.10	8.13	8.13	8.09	8.09	8.09	8.09
Arizona	3.68	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W
California	W	W	W	W	W	W	W
Colorado	W	W	W	W	W	W	W
Connecticut	W	W	4.17	2.86	2.67	W	W
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	W	4.58	4.38	W	W	W	W
Georgia	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Illinois	3.11	W	W	W	W	W	3.23
Indiana	W	W	W	W	W	W	W
Iowa	3.24	5.61	3.18	2.76	2.87	2.80	2.92
Kansas	3.68	4.27	3.52	3.24	3.65	3.44	3.22
Kentucky	W	W	W	W	W	W	W
Louisiana	W	W	W	W	W	W	W
Maine	W	W	--	W	W	W	W
Maryland	W	4.89	3.28	3.21	3.00	3.27	3.44
Massachusetts	3.82	8.72	W	W	2.29	2.42	2.58
Michigan	3.27	3.09	3.30	3.11	3.29	3.23	3.21
Minnesota	W	3.16	W	W	W	W	W
Mississippi	W	W	W	W	W	W	W
Missouri	3.03	2.97	2.73	2.68	3.10	3.19	3.07
Montana	1.85	1.98	1.91	0.72	1.49	1.52	1.52
Nebraska	4.19	5.97	4.89	4.02	4.12	3.64	3.48
Nevada	3.50	3.47	3.40	3.14	3.35	3.27	3.29
New Hampshire	W	W	W	W	W	W	W
New Jersey	3.01	5.39	2.95	1.63	2.04	2.19	2.44
New Mexico	3.58	3.67	3.69	3.36	3.45	3.50	3.53
New York	3.44	5.12	3.40	2.33	2.36	2.56	2.75
North Carolina	W	W	W	W	W	W	W
North Dakota	5.31	7.74	5.43	8.67	4.98	6.35	6.14
Ohio	3.05	3.00	2.94	2.89	2.81	2.76	2.91
Oklahoma	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W
Pennsylvania	2.58	3.93	2.37	1.47	1.71	2.03	2.27
Rhode Island	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W	W
South Dakota	--	--	--	--	--	--	--
Tennessee	3.04	3.02	2.92	2.88	2.99	2.86	2.93
Texas	3.13	2.95	3.10	3.11	3.11	3.03	3.11
Utah	W	W	W	W	W	W	W
Vermont	--	--	--	--	--	--	--
Virginia	3.48	W	W	W	2.67	2.94	3.09
Washington	4.11	4.13	4.39	3.70	3.94	3.62	4.03
West Virginia	W	W	W	W	W	W	W
Wisconsin	W	3.04	3.39	3.16	3.23	3.16	W
Wyoming	W	3.10	3.69	W	W	W	W
Total	3.52	3.81	3.50	3.27	3.31	3.27	3.32

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2017-2019
(dollars per thousand cubic feet) – continued

State	2017					
	June	May	April	March	February	January
Alabama	W	W	W	W	W	W
Alaska	8.09	8.09	8.09	8.09	8.09	8.09
Arizona	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W
California	W	W	W	W	W	W
Colorado	W	W	W	W	W	W
Connecticut	W	W	W	W	5.84	8.10
Delaware	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--
Florida	4.33	W	3.59	4.02	4.38	4.92
Georgia	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--
Idaho	--	--	--	--	--	--
Illinois	3.06	W	W	W	W	W
Indiana	W	W	W	W	W	W
Iowa	2.74	2.84	2.85	4.71	4.85	5.12
Kansas	3.43	4.10	3.88	3.52	4.82	4.92
Kentucky	W	W	W	W	5.96	W
Louisiana	W	W	W	W	W	W
Maine	W	--	W	W	W	W
Maryland	3.25	3.37	3.40	4.90	4.25	5.50
Massachusetts	2.65	3.36	3.47	4.35	W	W
Michigan	3.22	3.44	3.45	3.16	3.18	3.63
Minnesota	W	W	3.40	W	3.49	4.49
Mississippi	W	W	W	W	W	W
Missouri	3.22	3.40	3.03	2.59	3.05	3.43
Montana	2.10	2.49	2.22	2.09	2.25	2.36
Nebraska	3.51	4.03	4.37	5.17	6.48	5.61
Nevada	3.48	3.49	3.74	3.60	3.80	4.37
New Hampshire	W	W	W	W	W	W
New Jersey	2.42	3.24	3.34	3.45	3.64	4.06
New Mexico	3.51	3.69	3.85	3.27	3.65	4.02
New York	2.96	3.29	3.39	4.26	4.54	5.41
North Carolina	W	W	W	W	W	W
North Dakota	4.36	4.37	4.42	5.52	4.80	6.31
Ohio	3.06	3.22	3.28	2.93	3.26	3.84
Oklahoma	W	W	W	W	W	W
Oregon	W	W	W	W	W	W
Pennsylvania	2.39	3.00	3.00	2.86	3.21	4.12
Rhode Island	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W
South Dakota	--	--	--	--	--	--
Tennessee	3.07	2.96	3.04	3.00	3.09	3.82
Texas	3.17	3.29	3.22	3.02	3.13	3.47
Utah	W	W	W	W	W	W
Vermont	--	--	--	--	--	--
Virginia	3.10	3.59	3.67	W	W	W
Washington	5.16	3.85	3.67	3.74	5.57	4.95
West Virginia	W	W	3.36	W	W	W
Wisconsin	W	W	W	W	W	W
Wyoming	W	W	W	10.87	W	4.04
Total	3.41	3.61	3.50	3.52	3.74	4.33

^a The electric power sector comprises electricity-only (utilities and independent power producers) and combined-heat-and-power plants within the NAICS 22 sector, whose primary business is to sell electricity, or electricity and heat, to the public.

-- Not applicable.

^w Withheld.

Notes: Geographic coverage is the 50 states and the District of Columbia. Prices are in nominal dollars.

Sources: U.S. Energy Information Administration (EIA): Form EIA-923, "Power Plant Operations Report."

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2017-2019

State	2019 5-Month YTD			2018 5-Month YTD			2017 5-Month YTD		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	NA	NA	24.9	100.0	81.7	26.6	100.0	78.9	26.2
Alaska	100.0	NA	100.0	100.0	99.1	100.0	100.0	98.9	100.0
Arizona	100.0	75.7	14.9	100.0	NA	NA	100.0	83.6	14.4
Arkansas	NA	NA	1.7	100.0	48.0	NA	100.0	43.2	1.4
California	94.9	55.0	4.8	95.0	54.0	4.4	95.2	55.3	4.4
Colorado	100.0	94.5	8.5	100.0	94.4	7.7	100.0	94.1	7.7
Connecticut	96.4	78.9	52.5	NA	78.7	50.9	96.3	77.9	51.3
Delaware	100.0	NA	0.3	NA	NA	NA	100.0	41.7	0.6
District of Columbia	NA	22.0	0.0	76.5	NA	0.0	74.1	21.6	--
Florida	91.0	NA	NA	91.6	30.6	4.2	91.0	31.0	3.4
Georgia	100.0	100.0	24.0	100.0	100.0	24.1	100.0	100.0	24.8
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	NA	2.9	100.0	NA	2.8	100.0	80.2	2.7
Illinois	86.8	37.5	NA	85.8	36.6	NA	85.1	35.9	7.1
Indiana	96.2	67.7	1.9	96.0	68.0	NA	95.7	66.2	2.0
Iowa	100.0	69.1	2.8	100.0	NA	NA	100.0	71.2	2.8
Kansas	NA	NA	NA	100.0	59.8	4.2	100.0	55.5	2.7
Kentucky	97.2	80.8	17.4	96.8	81.5	NA	96.5	79.5	17.2
Louisiana	100.0	80.1	3.2	NA	NA	NA	100.0	80.1	3.5
Maine	100.0	66.5	8.6	100.0	NA	10.1	100.0	63.1	10.1
Maryland	75.7	NA	5.2	NA	NA	NA	74.7	28.0	5.6
Massachusetts	97.5	45.3	30.1	NA	NA	31.1	98.4	49.6	27.6
Michigan	94.1	61.9	8.6	93.5	60.2	NA	93.1	58.7	8.8
Minnesota	100.0	90.1	19.9	NA	NA	NA	100.0	90.2	17.5
Mississippi	100.0	86.1	NA	99.7	NA	9.1	100.0	85.0	9.1
Missouri	100.0	77.0	15.3	100.0	77.7	16.5	100.0	75.3	13.7
Montana	NA	NA	2.3	NA	NA	2.1	99.4	53.5	2.2
Nebraska	88.0	58.4	7.2	88.3	59.3	6.8	87.6	58.6	7.1
Nevada	100.0	64.5	NA	100.0	62.3	16.7	100.0	63.5	16.7
New Hampshire	100.0	58.9	10.0	100.0	57.9	NA	100.0	55.8	5.9
New Jersey	96.3	49.1	12.7	95.2	43.8	NA	94.5	47.6	9.2
New Mexico	NA	NA	4.6	100.0	61.6	NA	100.0	58.5	5.1
New York	100.0	NA	6.6	100.0	100.0	7.5	100.0	100.0	7.0
North Carolina	NA	87.5	NA	100.0	87.8	NA	100.0	83.9	11.9
North Dakota	100.0	93.8	35.5	100.0	NA	36.8	100.0	93.7	38.8
Ohio	100.0	100.0	1.1	100.0	100.0	NA	100.0	100.0	1.2
Oklahoma	100.0	51.5	7.9	100.0	52.0	7.7	100.0	49.2	7.7
Oregon	100.0	95.1	NA	100.0	NA	16.4	100.0	94.8	16.2
Pennsylvania	86.2	NA	NA	86.6	39.0	NA	87.6	39.1	1.4
Rhode Island	100.0	53.2	4.9	100.0	53.8	NA	100.0	52.8	3.8
South Carolina	100.0	91.7	NA	100.0	NA	NA	100.0	91.5	41.0
South Dakota	100.0	81.6	NA	NA	NA	NA	100.0	82.8	4.8
Tennessee	100.0	90.9	23.2	100.0	NA	NA	100.0	89.3	24.3
Texas	99.9	74.8	31.5	NA	76.3	36.4	99.8	73.4	38.3
Utah	100.0	NA	2.4	100.0	NA	3.0	100.0	76.1	4.4
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	89.6	53.2	NA	NA	NA	11.7	89.6	52.8	11.1
Washington	100.0	86.9	NA	100.0	NA	NA	100.0	87.3	7.7
West Virginia	100.0	59.1	NA	NA	61.3	4.1	100.0	56.6	3.9
Wisconsin	100.0	76.6	18.2	100.0	76.4	19.5	100.0	74.8	17.4
Wyoming	70.1	57.6	NA	70.1	49.1	1.8	71.4	49.7	1.8
Total	96.0	67.9	13.3	95.9	67.9	14.6	95.7	67.6	14.7

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2017-2019 – continued

State	2019								
	May			April			March		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	NA	NA	23.6	100.0	77.9	24.8	100.0	79.5	25.1
Alaska	100.0	NA	100.0	100.0	NA	100.0	100.0	NA	100.0
Arizona	100.0	72.6	16.6	100.0	74.0	16.0	100.0	76.5	14.2
Arkansas	100.0	28.0	1.1	100.0	39.8	1.6	NA	NA	2.2
California	94.9	55.6	4.4	94.2	55.8	4.6	94.6	55.5	4.9
Colorado	100.0	92.7	6.9	100.0	92.6	6.7	100.0	95.1	9.6
Connecticut	95.2	74.8	51.0	95.8	78.3	52.3	96.7	79.7	52.8
Delaware	100.0	28.9	0.1	100.0	41.1	0.2	100.0	NA	0.4
District of Columbia	72.3	17.7	0.0	75.5	21.1	0.0	76.6	23.9	0.0
Florida	90.9	28.4	2.9	90.5	NA	NA	90.6	28.9	NA
Georgia	100.0	100.0	23.7	100.0	100.0	23.5	100.0	100.0	24.1
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	65.1	2.9	100.0	72.0	3.1	100.0	80.9	2.7
Illinois	83.2	28.5	NA	83.8	30.7	6.3	86.5	37.9	NA
Indiana	95.7	55.6	0.9	96.3	59.4	1.5	96.3	68.5	2.1
Iowa	100.0	56.2	2.0	100.0	62.6	2.2	100.0	70.2	3.0
Kansas	100.0	36.3	4.0	NA	NA	NA	100.0	63.2	1.3
Kentucky	96.9	69.0	18.8	96.3	74.7	17.5	97.3	82.7	19.9
Louisiana	100.0	77.4	3.1	100.0	79.4	3.4	100.0	80.1	2.9
Maine	100.0	59.8	6.2	100.0	64.9	7.7	100.0	67.7	9.2
Maryland	74.2	NA	2.7	74.7	18.9	2.6	76.9	29.6	6.0
Massachusetts	97.2	38.8	24.5	97.3	46.8	28.9	97.5	48.0	34.1
Michigan	93.9	47.5	3.7	93.7	57.7	6.4	93.9	63.1	10.0
Minnesota	100.0	83.5	11.8	100.0	87.4	18.2	100.0	90.4	21.6
Mississippi	100.0	79.8	NA	100.0	82.3	NA	100.0	87.3	8.2
Missouri	100.0	65.0	10.4	100.0	73.4	13.9	100.0	79.0	16.7
Montana	NA	NA	1.6	99.6	51.1	1.7	99.6	57.3	3.4
Nebraska	85.7	47.2	6.0	87.3	54.6	6.9	88.5	61.4	8.0
Nevada	100.0	55.1	14.2	100.0	59.6	17.0	100.0	66.4	15.2
New Hampshire	100.0	53.7	6.6	100.0	57.7	9.7	100.0	60.3	12.2
New Jersey	96.6	40.5	6.4	96.8	40.9	8.8	96.3	53.0	14.8
New Mexico	100.0	NA	7.6	NA	NA	5.7	100.0	60.8	3.6
New York	100.0	100.0	4.7	100.0	100.0	6.1	100.0	100.0	6.9
North Carolina	NA	80.3	10.8	100.0	81.8	12.6	100.0	87.9	NA
North Dakota	100.0	91.5	38.8	100.0	91.9	34.2	100.0	93.9	36.9
Ohio	100.0	100.0	0.7	100.0	100.0	0.9	100.0	100.0	1.1
Oklahoma	100.0	36.8	7.0	100.0	50.0	7.9	100.0	56.0	7.9
Oregon	100.0	93.5	NA	100.0	94.5	15.7	100.0	95.6	16.2
Pennsylvania	85.9	NA	0.6	84.4	34.5	1.1	86.2	38.8	NA
Rhode Island	100.0	49.2	4.3	100.0	49.6	4.3	100.0	54.8	5.4
South Carolina	100.0	86.7	NA	100.0	89.1	36.5	100.0	92.5	40.6
South Dakota	100.0	78.5	3.4	100.0	82.0	5.3	100.0	82.9	NA
Tennessee	100.0	83.4	21.0	100.0	88.7	22.6	100.0	91.3	23.4
Texas	99.8	64.7	31.7	99.9	69.0	31.1	100.0	77.8	31.7
Utah	100.0	NA	2.3	100.0	62.6	2.3	100.0	70.3	2.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	86.3	43.0	7.8	85.4	43.1	9.9	89.9	55.6	NA
Washington	100.0	82.1	5.2	100.0	82.1	7.3	100.0	87.5	8.1
West Virginia	100.0	34.1	3.4	100.0	48.2	3.8	100.0	62.8	NA
Wisconsin	100.0	64.0	11.5	100.0	71.5	16.2	100.0	78.1	20.4
Wyoming	71.1	57.2	1.1	70.9	58.6	NA	69.4	57.8	1.4
Total	95.7	60.8	12.4	95.6	64.2	12.9	96.0	69.1	13.6

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2017-2019 – continued

State	2019						2018		
	February			January			Total		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	85.1	26.2	100.0	80.9	25.0	100.0	78.8	25.8
Alaska	100.0	NA	100.0	100.0	NA	100.0	100.0	NA	100.0
Arizona	100.0	77.3	14.7	100.0	76.4	13.8	NA	NA	NA
Arkansas	100.0	53.3	1.8	100.0	49.3	1.8	100.0	40.2	NA
California	95.5	55.4	6.1	95.0	53.3	4.2	NA	NA	NA
Colorado	100.0	94.8	9.2	100.0	95.2	9.4	100.0	NA	NA
Connecticut	96.7	80.1	53.8	96.6	79.2	52.1	NA	76.9	50.9
Delaware	100.0	44.9	0.4	100.0	41.4	0.3	NA	NA	NA
District of Columbia	NA	23.5	0.0	75.8	21.1	0.0	75.6	NA	0.0
Florida	91.4	30.7	3.7	91.1	NA	3.2	91.6	NA	NA
Georgia	100.0	100.0	24.6	100.0	100.0	24.1	100.0	100.0	NA
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	NA	2.9	100.0	83.3	2.7	100.0	NA	2.9
Illinois	86.8	40.1	11.1	89.1	41.5	9.7	86.8	34.7	NA
Indiana	96.3	68.7	2.4	96.2	72.1	2.3	NA	NA	NA
Iowa	100.0	71.7	3.7	100.0	71.9	3.0	100.0	NA	NA
Kansas	100.0	65.5	1.2	100.0	63.1	1.2	NA	52.6	6.1
Kentucky	96.9	82.8	16.0	97.6	82.6	15.1	NA	79.5	NA
Louisiana	100.0	82.3	3.4	100.0	80.1	3.4	NA	NA	NA
Maine	100.0	69.4	9.7	100.0	66.5	9.5	100.0	NA	8.4
Maryland	76.3	27.9	5.2	74.7	33.5	8.4	NA	NA	NA
Massachusetts	97.5	44.6	31.0	97.6	45.7	30.5	NA	NA	28.4
Michigan	94.0	63.4	10.7	94.6	66.1	10.5	93.7	NA	NA
Minnesota	100.0	91.1	23.6	100.0	92.1	22.1	NA	NA	NA
Mississippi	100.0	87.8	10.5	100.0	88.7	NA	99.8	NA	8.6
Missouri	100.0	80.1	18.1	100.0	77.6	15.8	100.0	74.1	NA
Montana	99.6	54.9	2.6	99.6	52.2	2.0	NA	NA	1.5
Nebraska	88.5	60.4	8.0	87.9	59.2	7.1	88.2	55.2	6.1
Nevada	100.0	67.5	NA	100.0	67.6	17.3	100.0	58.6	14.3
New Hampshire	100.0	59.9	9.7	100.0	59.5	11.1	100.0	56.4	NA
New Jersey	96.4	51.0	15.8	96.0	51.0	15.7	95.5	NA	NA
New Mexico	100.0	64.0	3.1	100.0	61.1	3.0	NA	NA	NA
New York	100.0	100.0	7.6	100.0	NA	7.3	100.0	100.0	NA
North Carolina	100.0	88.2	15.2	100.0	90.6	15.2	100.0	NA	NA
North Dakota	100.0	94.4	29.3	100.0	95.0	37.6	100.0	NA	37.2
Ohio	100.0	100.0	1.3	100.0	100.0	1.2	100.0	100.0	NA
Oklahoma	100.0	53.3	8.7	100.0	50.8	8.0	100.0	45.4	NA
Oregon	100.0	95.3	17.2	100.0	95.1	16.2	100.0	NA	15.6
Pennsylvania	86.3	39.5	NA	86.9	40.9	NA	NA	36.9	NA
Rhode Island	100.0	53.8	5.0	100.0	55.2	5.3	100.0	53.5	NA
South Carolina	100.0	92.5	41.0	100.0	94.3	40.1	100.0	NA	NA
South Dakota	100.0	81.5	7.3	100.0	81.4	6.5	NA	NA	NA
Tennessee	100.0	92.5	23.8	100.0	92.5	24.8	100.0	NA	NA
Texas	100.0	77.0	31.4	100.0	78.7	31.3	NA	72.2	35.7
Utah	100.0	71.2	2.4	100.0	74.6	2.6	100.0	NA	2.8
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	89.7	54.8	10.3	91.6	59.4	11.5	NA	NA	NA
Washington	100.0	89.9	8.9	100.0	88.0	NA	100.0	NA	NA
West Virginia	100.0	64.1	3.2	100.0	65.1	3.5	NA	55.1	4.1
Wisconsin	100.0	79.4	21.9	100.0	79.1	18.8	100.0	73.0	17.8
Wyoming	70.2	57.0	1.4	69.9	57.6	1.1	70.2	50.7	1.4
Total	96.1	69.4	14.0	96.3	70.2	13.6	96.0	65.6	14.2

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2017-2019 – continued

State	2018								
	December			November			October		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	82.0	26.1	100.0	73.5	25.4	100.0	70.2	25.7
Alaska	100.0	NA	100.0	100.0	99.1	100.0	100.0	98.2	100.0
Arizona	100.0	73.5	12.7	100.0	71.3	13.3	100.0	70.8	13.4
Arkansas	100.0	46.4	1.9	100.0	35.5	1.7	100.0	25.0	1.3
California	95.3	54.6	4.4	94.9	NA	4.2	94.5	46.7	4.6
Colorado	100.0	94.9	8.5	100.0	95.1	8.4	100.0	94.5	6.6
Connecticut	96.7	78.1	54.7	95.8	75.6	51.1	94.8	73.3	46.6
Delaware	100.0	42.5	0.4	100.0	NA	NA	100.0	19.5	0.3
District of Columbia	76.3	23.7	0.0	74.0	22.1	0.0	71.1	20.3	0.0
Florida	91.4	32.1	NA	90.6	30.2	2.9	91.5	27.8	2.9
Georgia	100.0	100.0	23.4	100.0	100.0	24.0	100.0	100.0	25.1
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	84.0	3.0	100.0	79.3	2.8	100.0	70.7	2.6
Illinois	87.8	38.7	9.8	90.3	39.5	NA	90.9	33.9	4.8
Indiana	96.2	69.7	2.1	96.1	68.2	1.8	95.5	66.4	NA
Iowa	100.0	68.3	3.6	100.0	69.9	3.7	100.0	64.5	2.7
Kansas	NA	58.0	0.9	100.0	58.2	1.0	100.0	38.3	2.0
Kentucky	97.2	82.1	17.2	98.2	79.7	15.1	98.7	75.8	16.3
Louisiana	100.0	79.5	2.9	100.0	74.6	4.0	100.0	72.5	3.6
Maine	100.0	66.2	9.0	100.0	60.3	8.8	100.0	50.2	7.0
Maryland	76.2	31.4	4.4	77.2	26.7	3.2	77.5	NA	2.3
Massachusetts	97.5	48.3	29.8	97.6	39.9	27.7	97.4	32.5	21.9
Michigan	93.5	61.4	10.0	94.3	61.1	6.6	94.8	48.7	5.5
Minnesota	100.0	NA	22.0	100.0	89.0	22.4	100.0	86.2	17.6
Mississippi	100.0	87.5	9.2	100.0	83.9	9.6	100.0	79.7	8.0
Missouri	100.0	77.3	NA	100.0	71.7	12.5	100.0	62.1	9.3
Montana	99.5	48.5	2.0	99.5	44.0	1.3	99.5	42.4	1.2
Nebraska	88.6	58.9	6.8	87.3	51.7	5.9	86.1	44.6	5.0
Nevada	100.0	66.0	20.6	100.0	58.9	15.8	100.0	51.0	13.5
New Hampshire	100.0	58.0	8.0	100.0	55.1	6.1	100.0	48.0	4.6
New Jersey	95.9	43.9	NA	96.0	41.1	NA	96.1	39.6	NA
New Mexico	100.0	NA	6.0	NA	NA	6.5	99.9	43.8	7.9
New York	100.0	100.0	7.3	100.0	100.0	4.7	100.0	100.0	4.1
North Carolina	100.0	89.0	14.2	100.0	88.0	12.6	100.0	85.8	11.0
North Dakota	100.0	94.4	41.8	100.0	93.6	31.6	100.0	93.3	39.3
Ohio	100.0	100.0	1.3	100.0	100.0	1.1	100.0	100.0	NA
Oklahoma	100.0	48.3	8.0	100.0	32.8	8.1	100.0	24.6	6.2
Oregon	100.0	95.4	17.0	100.0	94.6	15.7	100.0	93.6	14.9
Pennsylvania	NA	38.8	1.5	88.7	37.3	0.9	89.2	31.3	0.5
Rhode Island	100.0	54.1	5.6	100.0	52.1	4.9	100.0	53.9	4.5
South Carolina	100.0	NA	39.5	100.0	93.2	41.4	100.0	91.0	39.9
South Dakota	100.0	81.7	7.5	100.0	77.5	6.1	100.0	75.6	NA
Tennessee	100.0	91.5	25.3	100.0	88.3	NA	100.0	82.2	23.3
Texas	99.9	76.6	33.6	99.9	71.0	34.9	99.8	65.4	35.4
Utah	100.0	72.4	2.7	100.0	67.3	2.5	100.0	60.0	2.6
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	91.1	56.3	11.0	91.7	56.3	12.5	94.0	48.3	9.2
Washington	100.0	89.4	10.3	100.0	88.1	7.3	100.0	86.0	5.6
West Virginia	100.0	61.4	3.7	100.0	59.9	4.0	100.0	46.3	3.8
Wisconsin	100.0	78.6	19.6	100.0	75.2	19.3	100.0	67.0	19.0
Wyoming	68.9	56.7	1.2	70.1	57.1	1.1	69.7	56.6	0.9
Total	96.2	68.8	14.3	96.4	66.5	14.2	96.5	61.0	13.7

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2017-2019 – continued

State	2018								
	September			August			July		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	73.2	24.1	100.0	71.9	25.6	100.0	71.1	24.5
Alaska	100.0	95.8	100.0	100.0	95.5	100.0	100.0	95.8	100.0
Arizona	100.0	NA	14.3	NA	NA	NA	100.0	69.6	12.7
Arkansas	100.0	23.9	1.3	100.0	23.5	1.4	100.0	24.3	1.2
California	94.4	48.2	3.5	NA	NA	NA	94.5	49.1	3.3
Colorado	100.0	90.2	NA	100.0	NA	5.8	100.0	90.3	5.8
Connecticut	95.3	72.0	52.3	95.1	71.6	51.6	95.1	72.6	50.1
Delaware	100.0	NA	NA	100.0	20.0	0.3	100.0	NA	NA
District of Columbia	73.2	18.8	0.0	68.5	17.9	0.0	68.9	14.1	0.0
Florida	91.9	27.0	NA	92.0	NA	3.0	92.6	27.6	2.9
Georgia	100.0	100.0	24.5	100.0	100.0	24.7	100.0	100.0	23.4
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	61.5	3.0	100.0	59.0	3.1	100.0	58.7	3.0
Illinois	87.9	21.1	3.1	85.7	20.1	2.3	85.0	19.0	2.2
Indiana	NA	NA	NA	95.6	54.2	0.7	95.5	52.6	0.7
Iowa	100.0	NA	1.9	100.0	50.5	2.0	100.0	46.3	2.1
Kansas	100.0	27.7	6.0	100.0	24.8	13.7	100.0	26.3	16.7
Kentucky	NA	70.1	16.1	97.9	68.0	16.7	97.8	66.6	16.8
Louisiana	100.0	76.1	3.5	100.0	76.1	4.5	100.0	75.9	4.2
Maine	100.0	46.7	5.6	100.0	NA	6.4	100.0	NA	6.1
Maryland	72.7	NA	NA	72.0	18.7	1.3	73.2	21.6	1.2
Massachusetts	97.4	28.7	23.5	97.3	27.9	24.8	97.2	29.7	23.7
Michigan	94.4	42.6	2.6	94.0	37.1	2.0	94.1	NA	2.8
Minnesota	100.0	80.6	15.6	100.0	75.4	13.5	100.0	74.1	12.7
Mississippi	100.0	77.2	8.1	100.0	77.9	7.3	100.0	77.3	7.7
Missouri	100.0	57.4	9.7	100.0	58.4	9.9	100.0	58.7	8.3
Montana	99.4	26.0	0.7	99.4	31.0	0.8	99.4	37.8	0.7
Nebraska	89.3	41.0	5.4	89.5	39.5	5.2	89.4	42.2	5.1
Nevada	100.0	48.8	10.2	100.0	46.9	8.7	100.0	48.6	8.2
New Hampshire	100.0	47.0	3.7	100.0	48.1	2.5	100.0	48.6	3.0
New Jersey	95.6	29.7	NA	95.6	25.9	NA	95.5	NA	5.4
New Mexico	100.0	50.6	8.2	100.0	49.9	9.3	99.9	37.6	NA
New York	100.0	100.0	3.3	100.0	100.0	3.6	100.0	100.0	3.6
North Carolina	100.0	NA	11.1	100.0	NA	8.8	100.0	78.4	8.3
North Dakota	100.0	86.4	39.8	100.0	85.3	34.6	100.0	84.5	38.0
Ohio	100.0	100.0	NA	100.0	100.0	NA	100.0	100.0	NA
Oklahoma	100.0	28.9	8.1	100.0	30.0	8.7	100.0	29.0	9.2
Oregon	100.0	92.4	16.0	100.0	91.8	13.6	100.0	92.5	13.5
Pennsylvania	87.5	26.7	0.3	87.2	26.7	0.4	87.0	26.2	0.3
Rhode Island	100.0	53.2	4.7	100.0	50.7	4.2	100.0	52.8	3.2
South Carolina	100.0	90.3	39.8	100.0	89.8	38.7	100.0	89.1	38.8
South Dakota	100.0	70.0	1.6	100.0	68.9	1.8	100.0	71.7	1.5
Tennessee	100.0	79.6	21.9	100.0	77.1	22.2	100.0	79.0	20.3
Texas	99.2	59.6	36.0	NA	61.5	35.9	98.5	63.5	34.7
Utah	100.0	53.5	2.1	100.0	55.7	2.3	100.0	55.4	2.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	90.1	41.6	NA	88.5	41.8	10.1	86.5	41.8	9.3
Washington	100.0	82.0	NA	100.0	NA	NA	100.0	76.6	NA
West Virginia	100.0	31.9	4.0	100.0	29.8	4.0	100.0	31.2	3.9
Wisconsin	100.0	53.4	15.6	100.0	48.0	12.1	100.0	51.5	12.5
Wyoming	72.5	47.2	1.0	72.8	48.5	1.1	72.9	46.5	1.2
Total	96.2	56.5	13.7	95.6	54.8	13.9	95.8	56.0	13.7

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2017-2019 – continued

State	2018								
	June			May			April		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	73.7	25.3	100.0	76.7	25.8	100.0	78.3	26.5
Alaska	100.0	96.6	100.0	100.0	98.0	100.0	100.0	98.9	100.0
Arizona	100.0	NA	13.3	100.0	NA	12.2	100.0	NA	NA
Arkansas	100.0	24.8	1.1	100.0	33.9	1.2	100.0	39.9	1.4
California	94.6	50.6	4.0	94.6	53.8	4.1	94.6	52.1	4.3
Colorado	100.0	90.7	5.1	100.0	91.0	6.5	100.0	92.8	7.2
Connecticut	95.3	72.9	48.6	NA	72.7	49.4	96.2	76.6	52.3
Delaware	100.0	NA	NA	100.0	33.2	NA	100.0	41.6	NA
District of Columbia	69.0	21.7	0.0	75.2	18.9	0.0	76.9	20.2	0.0
Florida	90.9	27.5	3.3	90.8	29.0	4.5	90.5	29.6	4.1
Georgia	100.0	100.0	NA	100.0	100.0	23.2	100.0	100.0	24.2
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	NA	3.2	100.0	61.2	2.8	100.0	74.8	3.0
Illinois	84.0	21.7	3.5	77.4	21.5	6.1	85.4	34.5	8.5
Indiana	95.5	52.6	0.7	95.1	51.9	1.0	95.9	66.5	1.9
Iowa	100.0	47.9	1.9	100.0	52.3	2.3	100.0	67.5	2.3
Kansas	100.0	29.5	11.7	100.0	33.9	9.5	100.0	53.9	5.6
Kentucky	97.6	66.2	17.6	95.3	69.6	16.3	96.4	78.8	15.7
Louisiana	100.0	76.7	4.0	100.0	78.9	3.6	100.0	78.7	4.4
Maine	100.0	52.1	7.1	100.0	57.7	8.2	100.0	61.8	10.3
Maryland	73.0	17.9	NA	NA	NA	1.8	76.1	24.8	NA
Massachusetts	97.3	34.5	22.9	97.3	42.8	30.5	97.7	48.8	28.4
Michigan	94.0	39.4	2.5	90.2	41.7	4.5	93.4	62.0	7.9
Minnesota	100.0	76.8	14.1	NA	NA	NA	100.0	87.9	18.0
Mississippi	100.0	78.1	7.5	100.0	80.4	7.5	100.0	83.0	8.4
Missouri	100.0	60.9	9.6	100.0	67.7	12.2	100.0	75.4	16.4
Montana	99.4	41.9	0.7	99.5	49.0	1.2	99.5	51.4	2.0
Nebraska	89.0	39.9	5.4	87.5	50.1	6.3	88.3	58.8	6.3
Nevada	100.0	50.6	10.9	100.0	53.1	13.8	100.0	57.5	15.3
New Hampshire	100.0	49.7	NA	100.0	53.6	6.0	100.0	56.8	NA
New Jersey	95.5	30.9	NA	95.4	32.8	NA	95.3	38.8	NA
New Mexico	100.0	45.2	NA	100.0	58.3	NA	100.0	60.8	6.0
New York	100.0	100.0	NA	100.0	100.0	5.6	100.0	100.0	7.2
North Carolina	100.0	NA	8.2	100.0	80.3	9.2	100.0	82.7	11.5
North Dakota	100.0	87.2	35.5	100.0	NA	29.5	100.0	92.9	40.9
Ohio	100.0	100.0	0.5	100.0	100.0	0.6	100.0	100.0	1.2
Oklahoma	100.0	34.0	NA	100.0	46.3	7.8	100.0	45.6	7.5
Oregon	100.0	92.6	14.1	100.0	92.2	14.2	100.0	93.8	16.1
Pennsylvania	86.5	25.9	0.4	84.7	31.3	0.8	85.8	35.7	1.4
Rhode Island	100.0	50.3	3.7	100.0	47.6	3.6	100.0	52.1	NA
South Carolina	100.0	90.7	40.3	100.0	89.7	41.7	100.0	89.9	41.5
South Dakota	100.0	75.8	1.7	100.0	NA	3.6	100.0	83.2	NA
Tennessee	100.0	81.0	21.6	100.0	84.3	24.2	100.0	88.9	23.4
Texas	99.2	64.0	35.5	99.4	66.9	35.1	99.7	70.5	36.7
Utah	100.0	66.2	2.9	100.0	NA	3.0	100.0	70.0	3.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	88.6	40.8	NA	86.0	38.7	8.5	89.0	49.4	11.5
Washington	100.0	NA	NA	100.0	79.5	4.6	100.0	NA	6.6
West Virginia	100.0	30.7	4.5	NA	36.0	4.7	100.0	57.3	4.5
Wisconsin	100.0	53.2	11.2	100.0	61.5	15.4	100.0	74.1	20.0
Wyoming	73.1	46.9	1.3	71.9	47.9	1.4	71.2	49.5	1.6
Total	95.7	57.4	13.7	94.8	59.7	13.8	95.6	65.3	14.7

^R Revised data.

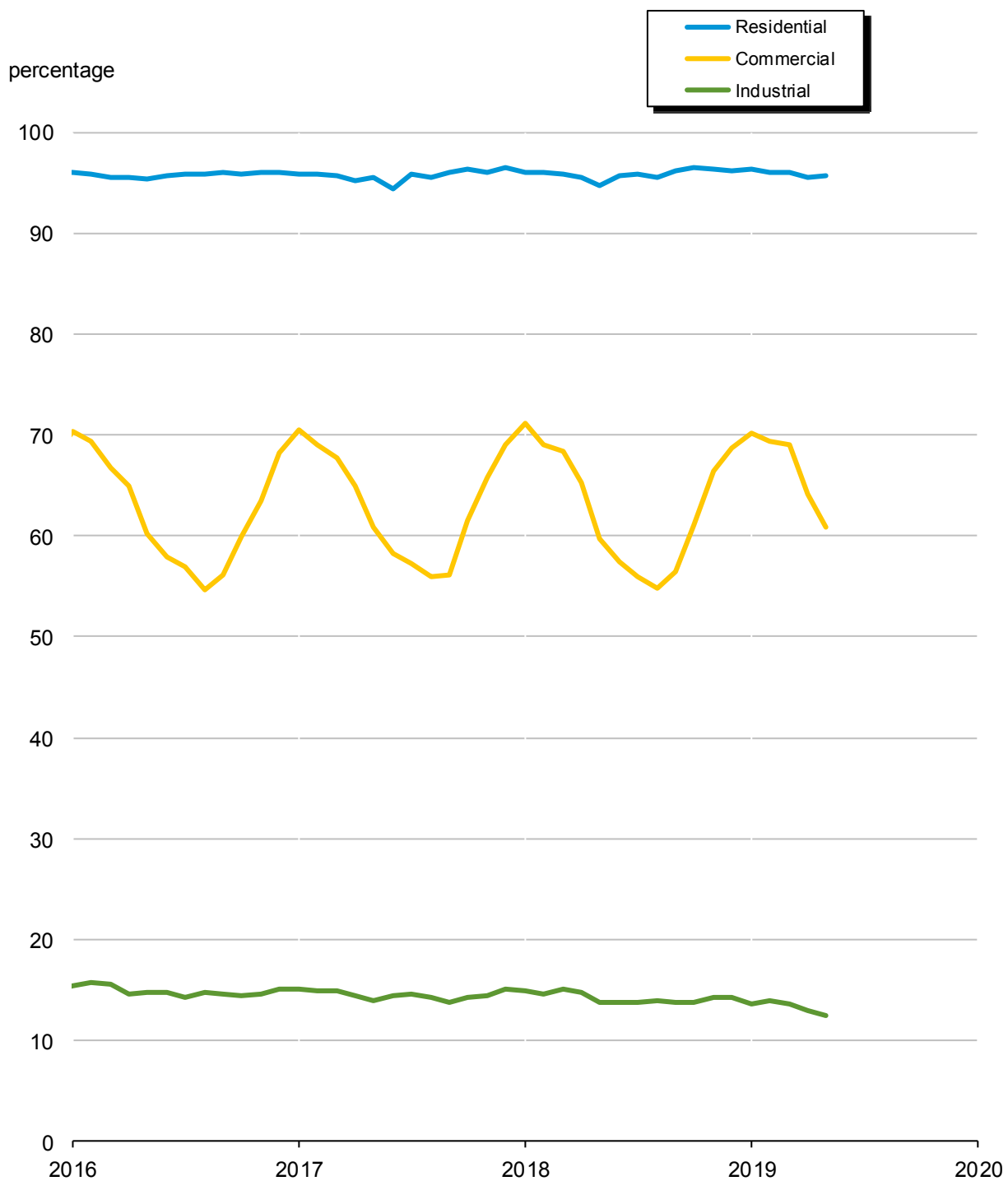
– Not applicable.

^{NA} Not available.

Notes: Volumes of natural gas reported for the residential, commercial, and industrial sectors in this publication include data for both sales and deliveries for the account of others. This table shows the percentage of the total state volume that represents natural gas sales to the residential, commercial, and industrial sectors. This information may be helpful in evaluating residential, commercial, and industrial price data which are based on sales data only. Residential and commercial price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. See Appendix C, Statistical Considerations, for a discussion of the computation of natural gas prices.

Sources: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

Figure 6. Percentage of total deliveries included in residential, commercial, and industrial price estimates, 2016-2019



Sources: Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

Table 25. Heating value of natural gas consumed, by state, 2017-2019
(Btu per cubic foot)

State	2019	2018	2017	2019			
	5-Month YTD	5-Month YTD	5-Month YTD	May	April	March	February
Alabama	1,023	1,027	1,029	1,026	1,023	1,021	1,021
Alaska	982	988	998	967	980	982	981
Arizona	1,035	1,040	1,040	1,032	1,035	1,036	1,037
Arkansas	1,017	1,018	1,025	1,015	1,017	1,016	1,018
California	1,032	1,033	1,034	1,031	1,032	1,031	1,033
Colorado	1,082	1,070	1,062	1,094	1,087	1,077	1,078
Connecticut	1,029	1,029	1,026	1,027	1,028	1,030	1,030
Delaware	1,039	1,041	1,041	1,037	1,038	1,039	1,040
District of Columbia	1,043	1,041	1,045	1,031	1,040	1,044	1,046
Florida	1,021	1,023	1,024	1,022	1,023	1,020	1,020
Georgia	1,023	1,028	1,031	1,023	1,021	1,021	1,022
Hawaii	953	971	964	963	958	946	961
Idaho	1,031	1,045	1,038	1,039	1,037	1,030	1,029
Illinois	1,033	1,032	1,032	1,032	1,032	1,033	1,034
Indiana	1,047	1,043	1,040	1,061	1,049	1,045	1,043
Iowa	1,057	1,055	1,052	1,063	1,060	1,054	1,054
Kansas	1,039	1,037	1,039	1,038	1,044	1,036	1,036
Kentucky	1,049	1,054	1,038	1,043	1,052	1,046	1,050
Louisiana	1,022	1,022	1,034	1,026	1,023	1,021	1,020
Maine	1,042	1,039	1,035	1,030	1,036	1,042	1,045
Maryland	1,048	1,047	1,052	1,039	1,045	1,050	1,050
Massachusetts	1,032	1,031	1,031	1,029	1,030	1,031	1,034
Michigan	1,053	1,045	1,043	1,057	1,053	1,051	1,053
Minnesota	1,045	1,038	1,031	1,055	1,053	1,043	1,026
Mississippi	1,028	1,025	1,034	1,032	1,030	1,030	1,023
Missouri	1,022	1,023	1,022	1,028	1,022	1,021	1,020
Montana	1,048	1,045	1,031	1,051	1,051	1,049	1,045
Nebraska	1,061	1,051	1,056	1,074	1,073	1,055	1,056
Nevada	1,037	1,037	1,039	1,039	1,039	1,034	1,039
New Hampshire	1,034	1,033	1,031	1,028	1,030	1,034	1,035
New Jersey	1,041	1,039	1,041	1,036	1,038	1,041	1,044
New Mexico	1,026	1,034	1,043	1,025	1,024	1,022	1,027
New York	1,033	1,032	1,033	1,030	1,032	1,033	1,034
North Carolina	1,028	1,028	1,036	1,029	1,030	1,029	1,027
North Dakota	1,086	1,082	1,056	1,085	1,092	1,087	1,089
Ohio	1,065	1,065	1,071	1,063	1,065	1,065	1,065
Oklahoma	1,026	1,036	1,044	1,025	1,027	1,027	1,030
Oregon	1,053	1,071	1,044	1,063	1,048	1,048	1,054
Pennsylvania	1,038	1,039	1,039	1,036	1,037	1,038	1,039
Rhode Island	1,028	1,029	1,029	1,028	1,028	1,028	1,028
South Carolina	1,024	1,029	1,030	1,027	1,025	1,022	1,021
South Dakota	1,065	1,059	1,054	1,073	1,067	1,064	1,064
Tennessee	1,028	1,026	1,029	1,023	1,032	1,027	1,027
Texas	1,023	1,025	1,029	1,022	1,024	1,022	1,021
Utah	1,043	1,041	1,043	1,044	1,046	1,043	1,041
Vermont	1,038	1,034	1,032	1,029	1,034	1,037	1,041
Virginia	1,055	1,051	1,052	1,049	1,053	1,057	1,056
Washington	1,085	1,088	1,078	1,083	1,084	1,083	1,086
West Virginia	1,090	1,090	1,086	1,112	1,091	1,087	1,088
Wisconsin	1,044	1,038	1,036	1,043	1,044	1,047	1,040
Wyoming	1,072	1,058	1,065	1,077	1,071	1,070	1,071
Total	1,037	1,036	1,037	1,035	1,036	1,037	1,037

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2017-2019
(Btu per cubic foot) – continued

State	2019						2018
	January	Total	December	November	October	September	August
Alabama	1,025	1,027	1,025	1,028	1,031	1,028	1,026
Alaska	990	975	976	979	979	970	937
Arizona	1,036	1,041	1,037	1,043	1,043	1,044	1,042
Arkansas	1,018	1,018	1,015	1,028	1,015	1,013	1,015
California	1,032	1,033	1,032	1,033	1,033	1,033	1,035
Colorado	1,081	1,079	1,083	1,082	1,089	1,096	1,091
Connecticut	1,030	1,028	1,030	1,029	1,028	1,027	1,027
Delaware	1,041	1,039	1,040	1,035	1,037	1,040	1,037
District of Columbia	1,045	1,040	1,045	1,041	1,036	1,030	1,027
Florida	1,021	1,023	1,022	1,024	1,023	1,022	1,021
Georgia	1,026	1,028	1,026	1,028	1,030	1,031	1,029
Hawaii	938	962	960	953	968	953	932
Idaho	1,028	1,035	1,027	1,026	1,032	1,024	1,020
Illinois	1,035	1,030	1,034	1,030	1,027	1,025	1,024
Indiana	1,043	1,046	1,047	1,045	1,043	1,049	1,052
Iowa	1,055	1,062	1,061	1,066	1,068	1,076	1,069
Kansas	1,043	1,039	1,043	1,041	1,035	1,036	1,040
Kentucky	1,051	1,051	1,058	1,052	1,045	1,046	1,046
Louisiana	1,021	1,022	1,024	1,019	1,024	1,024	1,023
Maine	1,048	1,042	1,044	1,042	1,044	1,039	1,045
Maryland	1,050	1,043	1,042	1,045	1,035	1,035	1,034
Massachusetts	1,035	1,031	1,032	1,030	1,030	1,029	1,030
Michigan	1,052	1,048	1,051	1,053	1,051	1,049	1,049
Minnesota	1,047	1,045	1,038	1,047	1,057	1,062	1,060
Mississippi	1,023	1,026	1,028	1,027	1,027	1,029	1,026
Missouri	1,022	1,024	1,023	1,022	1,023	1,025	1,028
Montana	1,045	1,046	1,045	1,041	1,042	1,048	1,055
Nebraska	1,059	1,060	1,062	1,064	1,074	1,073	1,073
Nevada	1,035	1,037	1,034	1,033	1,035	1,036	1,037
New Hampshire	1,041	1,031	1,035	1,033	1,030	1,028	1,029
New Jersey	1,044	1,039	1,042	1,041	1,036	1,035	1,035
New Mexico	1,031	1,036	1,035	1,035	1,035	1,039	1,040
New York	1,034	1,032	1,034	1,034	1,031	1,029	1,030
North Carolina	1,027	1,028	1,028	1,030	1,035	1,030	1,024
North Dakota	1,079	1,079	1,079	1,084	1,075	1,071	1,076
Ohio	1,065	1,064	1,065	1,065	1,064	1,063	1,063
Oklahoma	1,022	1,032	1,029	1,028	1,027	1,028	1,028
Oregon	1,055	1,062	1,049	1,043	1,055	1,062	1,059
Pennsylvania	1,039	1,037	1,038	1,037	1,036	1,036	1,035
Rhode Island	1,029	1,029	1,028	1,030	1,028	1,029	1,028
South Carolina	1,026	1,027	1,025	1,026	1,027	1,025	1,024
South Dakota	1,062	1,067	1,070	1,075	1,078	1,079	1,083
Tennessee	1,029	1,024	1,026	1,027	1,023	1,021	1,019
Texas	1,024	1,026	1,028	1,026	1,027	1,027	1,027
Utah	1,042	1,040	1,037	1,038	1,041	1,042	1,039
Vermont	1,042	1,034	1,040	1,036	1,031	1,024	1,025
Virginia	1,055	1,052	1,061	1,056	1,050	1,049	1,050
Washington	1,087	1,088	1,084	1,081	1,086	1,094	1,091
West Virginia	1,085	1,093	1,089	1,061	1,133	1,104	1,097
Wisconsin	1,046	1,038	1,044	1,045	1,043	1,034	1,028
Wyoming	1,072	1,058	1,063	1,048	1,059	1,065	1,066
Total	1,038	1,036	1,038	1,037	1,036	1,035	1,034

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2017-2019
(Btu per cubic foot) – continued

State	2018						
	July	June	May	April	March	February	January
Alabama	1,024	1,027	1,028	1,027	1,028	1,026	1,026
Alaska	956	953	980	987	982	991	995
Arizona	1,041	1,041	1,037	1,035	1,043	1,041	1,045
Arkansas	1,018	1,017	1,018	1,016	1,017	1,019	1,016
California	1,035	1,034	1,033	1,031	1,032	1,034	1,036
Colorado	1,089	1,089	1,081	1,071	1,072	1,064	1,066
Connecticut	1,027	1,027	1,027	1,029	1,029	1,029	1,030
Delaware	1,038	1,043	1,035	1,037	1,043	1,043	1,044
District of Columbia	1,031	1,029	1,027	1,038	1,044	1,042	1,047
Florida	1,026	1,021	1,023	1,023	1,024	1,023	1,024
Georgia	1,026	1,028	1,028	1,027	1,029	1,028	1,028
Hawaii	961	956	974	974	973	971	965
Idaho	1,037	1,029	1,058	1,053	1,040	1,039	1,045
Illinois	1,027	1,026	1,029	1,032	1,031	1,033	1,032
Indiana	1,051	1,054	1,048	1,042	1,043	1,039	1,041
Iowa	1,075	1,066	1,061	1,055	1,051	1,054	1,054
Kansas	1,041	1,048	1,041	1,036	1,037	1,036	1,037
Kentucky	1,047	1,044	1,046	1,061	1,055	1,051	1,054
Louisiana	1,022	1,022	1,023	1,019	1,021	1,021	1,022
Maine	1,047	1,047	1,041	1,042	1,044	1,035	1,035
Maryland	1,040	1,038	1,041	1,045	1,052	1,043	1,051
Massachusetts	1,030	1,029	1,029	1,029	1,032	1,032	1,033
Michigan	1,053	1,053	1,044	1,046	1,047	1,046	1,044
Minnesota	1,065	1,052	1,040	1,039	1,037	1,038	1,037
Mississippi	1,026	1,025	1,030	1,025	1,024	1,024	1,024
Missouri	1,030	1,031	1,027	1,021	1,023	1,023	1,023
Montana	1,056	1,051	1,048	1,045	1,047	1,043	1,044
Nebraska	1,072	1,062	1,059	1,053	1,053	1,043	1,052
Nevada	1,041	1,041	1,041	1,037	1,036	1,036	1,038
New Hampshire	1,030	1,030	1,028	1,032	1,033	1,033	1,036
New Jersey	1,035	1,034	1,034	1,039	1,040	1,039	1,042
New Mexico	1,040	1,042	1,034	1,032	1,031	1,035	1,040
New York	1,030	1,029	1,029	1,031	1,033	1,032	1,033
North Carolina	1,026	1,029	1,030	1,025	1,027	1,028	1,029
North Dakota	1,072	1,076	1,087	1,078	1,080	1,074	1,098
Ohio	1,061	1,060	1,061	1,065	1,065	1,064	1,068
Oklahoma	1,029	1,031	1,033	1,032	1,035	1,039	1,041
Oregon	1,066	1,080	1,080	1,080	1,070	1,070	1,063
Pennsylvania	1,036	1,036	1,037	1,037	1,039	1,039	1,041
Rhode Island	1,028	1,028	1,028	1,029	1,029	1,029	1,029
South Carolina	1,024	1,027	1,028	1,029	1,029	1,029	1,029
South Dakota	1,065	1,063	1,055	1,058	1,057	1,061	1,063
Tennessee	1,019	1,022	1,023	1,028	1,028	1,027	1,025
Texas	1,026	1,027	1,026	1,024	1,025	1,024	1,026
Utah	1,035	1,040	1,042	1,043	1,034	1,042	1,044
Vermont	1,030	1,033	1,026	1,034	1,036	1,035	1,036
Virginia	1,046	1,051	1,048	1,050	1,056	1,049	1,053
Washington	1,092	1,088	1,088	1,090	1,090	1,086	1,085
West Virginia	1,101	1,100	1,106	1,091	1,085	1,086	1,091
Wisconsin	1,034	1,039	1,032	1,040	1,039	1,035	1,040
Wyoming	1,053	1,057	1,058	1,057	1,057	1,060	1,054
Total	1,035	1,035	1,034	1,035	1,037	1,037	1,038

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2017-2019
(Btu per cubic foot) – continued

State	2017						
	Total	December	November	October	September	August	July
Alabama	1,030	1,027	1,029	1,030	1,031	1,030	1,031
Alaska	989	992	996	983	980	964	974
Arizona	1,041	1,042	1,040	1,039	1,047	1,040	1,039
Arkansas	1,019	1,014	1,014	1,021	1,020	1,018	1,017
California	1,035	1,034	1,033	1,032	1,036	1,036	1,037
Colorado	1,065	1,065	1,061	1,069	1,067	1,074	1,072
Connecticut	1,028	1,029	1,029	1,026	1,026	1,026	1,026
Delaware	1,042	1,047	1,044	1,042	1,042	1,040	1,038
District of Columbia	1,039	1,045	1,041	1,033	1,034	1,034	1,030
Florida	1,024	1,022	1,020	1,021	1,022	1,025	1,024
Georgia	1,030	1,026	1,026	1,028	1,032	1,030	1,032
Hawaii	975	989	969	984	978	983	987
Idaho	1,041	1,038	1,031	1,030	1,037	1,034	1,035
Illinois	1,029	1,031	1,032	1,030	1,027	1,027	1,027
Indiana	1,043	1,043	1,050	1,049	1,049	1,050	1,049
Iowa	1,056	1,059	1,058	1,060	1,061	1,059	1,058
Kansas	1,034	1,032	1,038	1,034	1,037	1,034	1,034
Kentucky	1,046	1,055	1,056	1,060	1,051	1,042	1,040
Louisiana	1,022	1,021	1,020	1,023	1,025	1,022	1,022
Maine	1,030	1,031	1,030	1,022	1,017	1,018	1,017
Maryland	1,047	1,048	1,038	1,042	1,045	1,047	1,044
Massachusetts	1,030	1,031	1,030	1,030	1,030	1,031	1,032
Michigan	1,043	1,044	1,043	1,042	1,043	1,043	1,042
Minnesota	1,033	1,039	1,038	1,032	1,029	1,027	1,030
Mississippi	1,032	1,026	1,027	1,027	1,031	1,030	1,035
Missouri	1,010	1,021	1,021	1,022	1,020	1,021	1,018
Montana	1,041	1,052	1,045	1,052	1,042	1,048	1,045
Nebraska	1,061	1,059	1,054	1,065	1,071	1,069	1,070
Nevada	1,039	1,039	1,030	1,035	1,038	1,039	1,043
New Hampshire	1,030	1,033	1,031	1,029	1,028	1,028	1,026
New Jersey	1,039	1,042	1,042	1,036	1,039	1,038	1,036
New Mexico	1,042	1,042	1,042	1,041	1,046	1,045	1,043
New York	1,032	1,034	1,033	1,031	1,031	1,031	1,030
North Carolina	1,036	1,026	1,032	1,040	1,038	1,036	1,037
North Dakota	1,080	1,104	1,086	1,094	1,100	1,083	1,085
Ohio	1,070	1,074	1,071	1,076	1,070	1,069	1,067
Oklahoma	1,042	1,037	1,036	1,036	1,051	1,043	1,043
Oregon	1,062	1,059	1,062	1,059	1,058	1,067	1,073
Pennsylvania	1,040	1,042	1,041	1,039	1,039	1,038	1,038
Rhode Island	1,029	1,029	1,029	1,030	1,030	1,030	1,030
South Carolina	1,031	1,028	1,029	1,031	1,032	1,030	1,030
South Dakota	1,055	1,067	1,058	1,056	1,055	1,054	1,054
Tennessee	1,031	1,031	1,030	1,027	1,026	1,029	1,030
Texas	1,029	1,029	1,027	1,028	1,034	1,030	1,030
Utah	1,042	1,043	1,042	1,041	1,041	1,039	1,041
Vermont	1,030	1,033	1,033	1,026	1,021	1,022	1,020
Virginia	1,053	1,057	1,052	1,051	1,050	1,051	1,051
Washington	1,080	1,084	1,084	1,082	1,075	1,083	1,091
West Virginia	1,083	1,073	1,086	1,081	1,087	1,055	1,092
Wisconsin	1,035	1,035	1,039	1,034	1,027	1,027	1,026
Wyoming	1,060	1,052	1,047	1,049	1,050	1,058	1,055
Total	1,036	1,039	1,037	1,035	1,036	1,035	1,035

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2017-2019
(Btu per cubic foot) – continued

State	2017					
	June	May	April	March	February	January
Alabama	1,030	1,031	1,030	1,028	1,029	1,028
Alaska	988	995	994	996	1,000	1,000
Arizona	1,037	1,038	1,038	1,040	1,043	1,042
Arkansas	1,019	1,016	1,022	1,017	1,019	1,018
California	1,037	1,033	1,033	1,034	1,034	1,036
Colorado	1,069	1,065	1,063	1,062	1,060	1,060
Connecticut	1,025	1,025	1,025	1,026	1,026	1,026
Delaware	1,037	1,037	1,041	1,045	1,045	1,047
District of Columbia	1,029	1,034	1,035	1,047	1,049	1,051
Florida	1,023	1,024	1,023	1,023	1,025	1,024
Georgia	1,032	1,033	1,030	1,029	1,033	1,030
Hawaii	987	984	959	954	972	955
Idaho	1,069	1,044	1,051	1,037	1,036	1,036
Illinois	1,027	1,028	1,030	1,030	1,031	1,033
Indiana	1,044	1,042	1,036	1,034	1,034	1,038
Iowa	1,056	1,057	1,055	1,052	1,052	1,052
Kansas	1,033	1,035	1,041	1,037	1,036	1,042
Kentucky	1,043	1,028	1,030	1,035	1,035	1,037
Louisiana	1,020	1,022	1,023	1,022	1,022	1,023
Maine	1,021	1,022	1,026	1,036	1,049	1,037
Maryland	1,041	1,046	1,043	1,055	1,056	1,054
Massachusetts	1,030	1,030	1,029	1,031	1,031	1,031
Michigan	1,042	1,043	1,039	1,042	1,045	1,045
Minnesota	1,028	1,034	1,032	1,033	1,028	1,028
Mississippi	1,035	1,032	1,032	1,035	1,035	1,034
Missouri	1,020	1,021	1,022	1,021	1,022	1,022
Montana	1,040	1,026	1,032	1,036	1,034	1,036
Nebraska	1,066	1,063	1,061	1,058	1,060	1,057
Nevada	1,044	1,035	1,039	1,039	1,040	1,041
New Hampshire	1,030	1,029	1,028	1,032	1,036	1,032
New Jersey	1,036	1,037	1,038	1,043	1,042	1,043
New Mexico	1,040	1,042	1,040	1,042	1,043	1,045
New York	1,031	1,031	1,032	1,033	1,033	1,033
North Carolina	1,038	1,040	1,045	1,033	1,032	1,033
North Dakota	1,085	1,080	1,080	1,078	1,083	1,076
Ohio	1,068	1,068	1,069	1,072	1,071	1,071
Oklahoma	1,044	1,041	1,042	1,041	1,043	1,046
Oregon	1,086	1,079	1,076	1,035	1,035	1,036
Pennsylvania	1,038	1,038	1,038	1,040	1,040	1,041
Rhode Island	1,030	1,029	1,029	1,029	1,029	1,029
South Carolina	1,030	1,032	1,031	1,030	1,031	1,030
South Dakota	1,050	1,051	1,049	1,050	1,051	1,055
Tennessee	1,032	1,032	1,029	1,028	1,031	1,032
Texas	1,028	1,029	1,030	1,026	1,029	1,027
Utah	1,041	1,042	1,042	1,043	1,043	1,043
Vermont	1,026	1,024	1,025	1,033	1,036	1,034
Virginia	1,052	1,051	1,055	1,057	1,052	1,057
Washington	1,082	1,077	1,080	1,078	1,075	1,076
West Virginia	1,105	1,094	1,103	1,086	1,089	1,084
Wisconsin	1,029	1,036	1,034	1,035	1,038	1,041
Wyoming	1,053	1,052	1,051	1,055	1,066	1,060
Total	1,035	1,035	1,036	1,037	1,038	1,039

Notes: Geographic coverage is the 50 states and the District of Columbia. Heating value is the average number of British thermal units (Btu) per cubic foot of natural gas as reported on Form EIA-857. See Appendix A, Explanatory Note 11, for further information.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-923, "Power Plant Operations Report."

Appendix A

Explanatory Notes

The Energy Information Administration (EIA) publishes monthly data for the supply and disposition of natural gas in the United States in the *Natural Gas Monthly* (NGM). The information in this Appendix is provided to assist users in understanding the monthly data. Table A1 lists the methodologies for deriving the data to be published for the most recent months shown in Tables 1 and 2. The following explanatory notes describe sources for all NGM tables.

Table A1. Methodology for most recent monthly natural gas supply and disposition data of tables 1 and 2

Components	Reporting Methodology
Supply and Disposition	
Marketed Production	Estimated from sample data reported on Form EIA-914
Natural Gas Plant Liquid (NGPL)	
Production	Derived from data reported on Form EIA-816
Dry Production	Marketed Production minus NGPL Production
Withdrawals from Storage	Reported on Form EIA-191
Supplemental Gaseous Fuels	Derived from supply estimates and coal gasification information
Imports	Derived from the Office of Fossil Energy
Additions to Storage	Reported on Form EIA-191
Exports	Derived from the Office of Fossil Energy
Current-Month Consumption	Reported on Form EIA-857, Form EIA-923, and other sources below
Consumption by Sector	
Lease and Plant Fuel	Derived from Marketed Production
Pipeline and Distribution Use	Derived from Deliveries to Consumers
Residential	Estimated from sample data reported on Form EIA-857
Commercial	Estimated from sample data reported on Form EIA-857
Industrial	Estimated from sample data reported on Form EIA-857
Electric Power	Estimated from sample data reported on Form EIA-923
Vehicle Fuel	EIA computations

Note 1. Production

Monthly Data

Estimates of gross withdrawals and marketed production for the Lower 48 states are derived from submissions by well operators on the monthly Form EIA-914, "*Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report.*" For 2018 forward, volumes are available only for those states/areas that were collected

individually on the EIA-914 report (Arkansas, California (including State Offshore), Colorado, Federal Offshore Gulf of Mexico, Kansas, Louisiana (including State Offshore), Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas (including State Offshore), Utah, West Virginia, and Wyoming). The “other states” category comprises states/areas not individually collected on the EIA-914 report (Alabama, Arizona, Federal Offshore Pacific, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia). All data for Alaska are obtained directly from the state. The sum of individual states may not equal total U.S. volumes due to independent rounding. (See the [EIA-914 Methodology](#) for an explanation of the procedure for estimating state gross withdrawals from reported volumes.)

Marketed production is estimated from gross withdrawals using historical relationships between the two. All monthly data are considered preliminary up to the cover year of the most recent [Natural Gas Annual](#).

Annual Data

Natural gas production data (gross withdrawals, gas vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, and marketed production) were obtained directly from the state agencies where available, or, in some cases, from EIA-914 estimates, state sponsored public record databases, or commercial data vendors such as DrillingInfo (DI) or PointLogic. Production data for the Federal Gulf of Mexico region are provided by the U.S. Bureau of Safety and Environmental Enforcement (BSEE). Federal Offshore Pacific production, currently allocated to California, is also collected from BSEE.

Note 2. Natural Gas Plant Liquid (NGPL) Production

Monthly Data

Monthly NGPL production is reported by gas processing plants on Form EIA-816, “Monthly Natural Gas Liquids Report.” These liquid volumes are converted to natural gas equivalents using factors consistent with industry standards published by the Gas Processors Association, and instructions to respondents to EIA’s annual survey of gas processing plants, Form EIA-64A, “Annual Report of the Origin of Natural Gas Liquids Production.” Separate values are used for ethane, propane, isobutane, and normal butane. A value for “natural gasoline,” reflecting pentanes and higher, is used. A separate value for isopentane is also used when reporting facilities have the capability to separate out and market isopentane on its own. The value for natural gasoline also includes isopentane - this value is used when estimating the volumetric equivalent of “pentanes plus” produced. These factors all are for “real” rather than “ideal” gas volumes stated at a pressure of 14.73 pounds per square inch absolute (psia) at 60 degrees Fahrenheit on a dry basis.

Annual Data

The final NGPL production estimates, published in the NGA, incorporate information received from gas processing plants on Form EIA-64A, “Annual Report of the Origin of Natural Gas Liquids Production.” Monthly NGPL production estimates are recalibrated to equate to this total.

Note 3. Supplemental Gaseous Fuels

Monthly Data

All monthly data are considered preliminary until after the publication of the NGA for the year in which the report month falls. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the monthly sum of these three elements to compute a monthly supplemental gaseous fuels figure.

Monthly data are revised after publication of the NGA. Final monthly data are estimated based on the revised annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This revised ratio is applied to the revised monthly sum of these three supply elements to compute final monthly data.

Annual Data

Annual data on supplemental gaseous fuel supply are reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Note 4. Imports and Exports

Monthly and Annual Data – Imports

Monthly import and export data are from Form FE-746R, "Import and Export of Natural Gas," from the Office of Fossil Energy, U.S. Department of Energy. Annual data are the aggregate of the monthly data for that year.

Note 5. Natural Gas Storage

Note that final monthly and annual storage levels, additions, and withdrawal data shown in Table 1 for 2014 through 2017 include both underground and liquefied natural gas (LNG) storage. Beginning in January 2013, U.S. totals include Alaska data. Prior to 2013, totals only included data from the lower 48 states. Beginning in November 2015, new region breakouts of the storage data shown in Tables 12 and 13 were introduced, replacing the Producing, East, and West region breakouts. The states included in each of these five regions are as follows:

East Region: Connecticut, Delaware, District of Columbia, Florida, Georgia, Massachusetts, Maryland, Maine, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia, and West Virginia.

South Central Region: Alabama, Arkansas, Kansas, Louisiana, Mississippi, Oklahoma, and Texas.

Midwest Region: Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, Missouri, Tennessee, and Wisconsin.

Mountain Region: Arizona, Colorado, Idaho, Montana, Nebraska, Nevada, New Mexico, North Dakota, South Dakota, Utah, and Wyoming.

Pacific Region: California, Oregon, and Washington.

Monthly Data

Preliminary and final monthly data on underground storage levels, additions, and withdrawals are from the Form EIA-191, "Monthly Underground Gas Storage Report." All operators of underground storage fields complete the survey.

Estimates of monthly LNG additions and withdrawals are calculated by applying the proportion of each month's net injections to underground storage during the injection season to annual LNG additions and the proportion of each month's net withdrawals from underground storage during the withdrawal season to annual LNG withdrawals.

There are three principal types of underground storage facilities in operation in the United States today: salt caverns (caverns hollowed out in salt "bed" or "dome" formations), depleted fields (depleted reservoirs in oil and/or gas fields), and aquifer reservoirs (water-only reservoirs conditioned to hold natural gas). A storage facility's daily deliverability or withdrawal capability is the amount of gas that can be withdrawn from it in a 24-hour period. Salt cavern storage facilities generally have high deliverability because all of the working gas in a given facility can be withdrawn in a relatively short period of time. (A typical salt cavern cycle is 10 days to deplete working gas, and 20 days to refill working gas.) By contrast, depleted field and aquifer reservoirs are designed and operated to withdraw all working gas over the course of an entire heating season (about 150 days). Further, while both traditional and salt cavern facilities can be switched from withdrawal to injection operations during the heating season, this is usually more quickly and easily done in salt cavern facilities, reflecting their greater operational flexibility.

Annual Data

Final annual data on additions and withdrawals from underground storage facilities are the sum of the monthly data from the EIA-191.

Annual data on LNG additions and withdrawals are from the EIA-176.

Note 6. Consumption

Monthly Data

All monthly data are considered preliminary until after publication of the NGA.

Annual Data

All annual data are from the NGA. Total consumption is the sum of the components of consumption listed below. Monthly data are revised after publication of the NGA.

Residential, Commercial, and Industrial Consumption

Preliminary estimates of monthly deliveries of natural gas to residential, commercial, and industrial consumers in 50 states are based on data reported on Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries." See Appendix C, "Statistical Considerations," for a detailed explanation of sample selection and estimation procedures. Monthly data for a given year are revised after the publication of the NGA to correct for any sampling errors. Final monthly data are

estimated by allocating annual consumption data from the Form EIA-176 to each month in proportion to monthly volumes reported in Form EIA-857.

Vehicle Fuel Use

Monthly U.S. total estimates of natural gas (compressed or liquefied) used as vehicle fuel are derived from an annual estimate of vehicle fuel use provided by the Office of Electricity, Renewables, and Uranium Statistics of EIA.

Electric Power Consumption

Monthly estimates of deliveries of natural gas to electric power producers are derived from data submitted by the sample of electric power producers reporting monthly on Form EIA-923, "Power Plant Operations Report," which replaced Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." The estimates reported in the NGM represent gas delivered to electricity-only plants (utility and independent power producers) and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. For a discussion of these estimates, see the [Electric Power Monthly](#).

Pipeline and Distribution Use

Preliminary monthly estimates are based on the pipeline fuel consumption as an annual percentage of total consumption from the previous year's Form EIA-176. This percentage is applied to each month's sum of total deliveries plus lease and plant fuel to compute the monthly estimate.

Monthly data are revised after the publication of the NGA. Final monthly data are based on the revised annual ratio of pipeline fuel consumption to total consumption from the Form EIA-176. This ratio is applied to each month's revised sum of total deliveries plus lease and plant fuel to compute final monthly pipeline fuel consumption estimates.

Lease and Plant Fuel Consumption

Preliminary monthly data are estimated based on lease and plant fuel consumption as an annual percentage of marketed production. This percentage is applied to each month's marketed production figure to compute estimated lease and plant fuel consumption.

Monthly data are revised after publication of the NGA. Final monthly plant fuel data are based on a revised annual ratio of plant fuel consumption to marketed production from Form EIA-176. This ratio is applied to each month's revised marketed production figure to compute final monthly plant fuel consumption estimates. Final monthly lease data are collected directly from state agencies' websites where available. For states where these data are not available, lease fuel quantities were estimated by applying an average of the states' historical ratio of lease fuel to gross withdrawals. See the NGA for a complete discussion of this process.

Note 7. Balancing Item

The balancing item category represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to data reporting problems or to issues in survey coverage. Preliminary monthly data in the balancing item category are calculated by subtracting dry gas production, withdrawals from storage, supplemental gaseous fuels, and imports from total disposition. The balancing item may reflect problems in any of the surveys comprising natural gas supply or disposition.

Reporting problems include differences due to the net result of conversions of flow data metered at varying temperatures and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycles and calendar periods; and imbalances resulting from the merger of data reporting systems, which vary in scope, format, definitions, and type of respondents. Survey coverage problems include incomplete survey frames or problems in sampling design.

Annual data are from the NGA. For an explanation of the methodology used in calculating the annual balancing item, see the NGA.

Note 8. Average Price of Deliveries to Consumers

For most states, price data are representative of prices for gas sold and delivered to residential, commercial, and industrial consumers by local distribution companies. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. In the states of Georgia, Maryland, New York, Ohio, and Pennsylvania, the residential and commercial sector prices reported in the NGM include data on prices of gas sold to customers in those sectors by energy marketers. These latter data are collected on Form EIA-910, "Monthly Natural Gas Marketer Survey." In 2008 through 2010, in the states of Florida, Georgia, Maryland, New Jersey, New York, Ohio, Pennsylvania, and Virginia, residential price data were based on total gas deliveries, and, in the states of Florida, Georgia, Maryland, Michigan, New York, Ohio, Pennsylvania, Virginia, and the District of Columbia, commercial price data were based on total gas deliveries. Beginning in 2011, however, residential and commercial price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. Residential and commercial sector prices reported in the NGM include data on prices of gas sold to customers in those states by energy marketers as data quality becomes acceptable. Except for these states, none of the prices reflect average prices of natural gas transported to consumers for the account of third parties. Table 24 indicates the percentage of total deliveries included in residential, commercial, and industrial price estimates.

Prices of natural gas delivered to the electric power sector are derived from data reported on the Form EIA-923, "Power Plant Operations Report." Prices from these surveys are also published in the [Electric Power Monthly](#).

Note 9. NGPL Composite Spot Price and Natural Gas Spot Price

Monthly Data

The natural gas plant liquids (NGPL) composite price published in the NGM is derived from spot price data at Mont Belvieu, Texas, from Bloomberg. Daily closing spot prices for ethane, propane, butane, isobutane, and natural gasoline (pentanes plus) are each averaged into a monthly series, then weighted according to the portion of a representative natural gas plant liquids barrel that they occupy. Volume weights are updated monthly using the latest available data collected on Form EIA-816, *Monthly Natural Gas Liquids Report*. The NGPL composite price excludes natural gas liquids produced at crude oil refineries.

Bloomberg spot price data for each natural gas liquids (NGL) product are in cents per gallon. EIA converts these prices into dollars per barrel. Using heat conversion factors from Table A1 in the appendix of the *Annual Energy Review*, "Approximate Heat Content of Petroleum Products," the prices are converted to dollars per million British thermal units (MMBtu) for each natural gas liquid.

The NGPL composite spot price is calculated as:

$$P = \sum \left(p_i * \frac{v_i}{V} \right)$$

where:

P = the NGPL composite spot price in dollars per MMBtu,

p_i = the monthly spot price for natural gas liquids product i in dollars per MMBtu,

V = the total volume of natural gas plant liquids produced in the report month,

v_i = the monthly production volume for natural gas plant liquids product i .

The natural gas spot price is the simple average of the daily closing spot prices for natural gas at the Henry Hub in Louisiana. This series is published by Refinitiv and republished by EIA with permission.

Annual Data

The annual NGPL composite spot price represents the average cost of a representative barrel of NGPL in a given year. This annual figure is calculated as the total cost of all NGPL products sold, as priced at Mont Belvieu, divided by the total volume of all NGPL products produced for the year derived by summing the months of natural gas plant liquids production data collected on Form EIA-816.

The annual natural gas spot price represents the average of daily closing spot prices for dry natural gas at the Henry Hub in Louisiana in a given year.

Note 10. Heating Degree-Days

Degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations of the mean daily temperature below 65 degrees Fahrenheit. A weather station recording a mean daily temperature of 40 degrees Fahrenheit would report 25 heating degree-days. There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published in the NGM, is developed by the National Weather Service Climate Analysis Center, Camp Springs, Maryland.

The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at these weather stations is used to calculate statewide degree-day averages weighted by gas home customers. The state figures are then aggregated into Census Divisions and into the national average. Table 26 of this report presents the Heating Degree data, and is included in the December through April NGM publications.

Note 11. Heat Content

The Form EIA-857 collects volume and cost data on natural gas delivered to residential, commercial, and industrial consumers, as shown in Tables 2 and 25 of the NGM. Data are reported by a sample of natural gas companies that deliver to consumers in the United States. Respondents are instructed to calculate the average heat content (Btu) by summing the total Btu delivered each month (volume delivered directly to consumers) multiplied by average Btu content per unit volume and then dividing by the total volume delivered directly to consumers during that month. The average Btu content for each month should be that used for billing purposes whether billing was on a therm (100,000 Btu) or dekatherm (1,000,000 Btu) basis. The value for heat content is expected to be in the range of 900 to 1200 Btu/cubic foot.

This page intentionally blank.

Appendix B

Data Sources

The data in this publication are taken from survey reports collected by the Energy Information Administration (EIA), the Federal Energy Regulatory Commission (FERC), and the Office of Fossil Energy of the U.S. Department of Energy (DOE). The EIA is the independent statistical and analytical agency within the DOE. The FERC is an independent regulatory commission within the DOE that has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. The Office of Fossil Energy has the authority under Section 3 of the Natural Gas Act of 1938 to grant authorizations for the import and export of natural gas.

Data are collected from annual, quarterly, and monthly surveys. The primary annual report is the Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition,” a mandatory survey of all companies that deliver natural gas to consumers or that transport gas across state lines. Another annual report, Form EIA-895, “Annual Quantity and Value of Natural Gas Production Report,” was completed by agencies in the 32 gas producing states through 2010. EIA obtained similar data directly from the states beginning in 2011. The EIA-895 Form collected volumes of natural gas gross withdrawals, those vented and flared, returned to formation, or used on the lease, and the volume of nonhydrocarbons removed from the produced stream. It also collected information on the value of marketed production. The Office of Fossil Energy provides monthly and quarterly files of data on imports and exports. The monthly reports include surveys of the natural gas industry, and of the electric power industry. The monthly natural gas industry surveys are: the Form EIA-191, filed by companies that operate underground storage facilities in the Lower 48 states; the Form EIA-914, filed by a sample of companies that operate wells producing natural gas; the Form EIA-857, filed by a sample of companies that deliver natural gas to consumers; and the Form EIA-910, filed by natural gas marketers in select states. The electric power industry source for both price and consumption data is Form EIA-923, “Power Plant Operations Report.” Responses to all current surveys are mandatory. A description of the survey respondents, reporting requirements, and processing of the data is given on the following pages for each of the natural gas surveys. Copies of the forms and instructions are available on the EIA website. Further information about Electric Power forms can be found in Appendix C of the [Electric Power Monthly](#).

[Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition”](#)

The Form EIA-176 is mailed to all identified interstate and intrastate natural gas pipeline companies; investor and municipally owned natural gas distributors; underground natural gas storage operators; synthetic natural gas plant operators; field, well, or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities); and/or companies that transport gas across a state border through field or gathering facilities. Each company is required to file if it meets the survey specifications. The mailing in 2019 for report year 2018 totaled approximately 2,084 questionnaire packages. While final nonresponse rates vary, the rates have averaged about 1 percent in recent years.

The Form EIA-176 is a multi-line, multi-page schedule for reporting all supplies of natural gas and supplemental gaseous fuels and their disposition within the state indicated. Respondents file completed forms with EIA in Washington, DC. Data for the report year are due by March 1st. Extensions of the filing deadline for up to 30 days are granted to any respondent upon request.

All natural gas and supplemental gaseous fuels volumes are reported on a physical custody basis in thousand cubic feet (Mcf), and dollar values are reported to the nearest whole dollar. All volumes are reported at 14.73 pounds per square inch absolute pressure (psia) and 60 degrees Fahrenheit.

Data from Form EIA-176 are also published in the [Natural Gas Annual](#) (NGA) and are available from the Form EIA-176 Query system posted on the EIA website. Data reported on this form are not considered proprietary. Response to the form is mandatory.

Form EIA-895, “Monthly and Annual Quantity and Value of Natural Gas Report”

Monthly production data were collected through Form EIA-895, “Monthly and Annual Quantity and Value of Natural Gas Report,” from January 1995 through December 2006. The form was designed to provide a standard reporting system, to the extent possible, for the natural gas data reported by the states. Data were not considered proprietary. All gas-producing states and the Bureau of Safety & Environmental Enforcement (and predecessor agencies) were requested to report on the Form EIA-895, a voluntary report that was used through 2010.

In 1996, an annual schedule was added to the voluntary Form EIA-895 to replace a prior annual production form. This annual schedule, designated Form EIA-895, continued to be used for collecting production data from states through 2010. In 2011, annual gas production data were obtained directly from publicly available state data.

The commercial recovery of methane from coalbeds and shale plays contributes a significant amount to the production totals in a number of states. Gross production quantities of natural gas from coalbed methane seams and shale plays (in thousand cubic feet) are obtained from PointLogic Energy. Previously, data from LCI Energy Insight (LCI) were used. In 2007-2009, an average daily production rate, available for each year, from coalbed methane and shale were used to allocate production data across months depending on the number of days in each month. For 2010 forward, monthly coalbed and shale data from LCI and, later, PointLogic Energy, were developed with the following method:

[Quarterly Daily Shale Production Rate (MMcf/day) x Number of Days in Quarter x 1000] x [Month Gross Production Volume / Quarter Gross Production Volume]

Beginning in 2010, for Pennsylvania, the quarterly shale data were also used to create a gross production monthly pattern. Data for coalbed and shale gas wells are not shown in the *Natural Gas Monthly*; however, coalbed and shale breakouts are available via the [Natural Gas Navigator](#).

The EIA-895 also collected data on volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on

lease; and marketed production as well as the monthly volume and value of marketed production. From 2011 forward, these data were obtained directly from the states or, where it was not available, estimated by EIA. The annual schedule of the EIA-895 also collected data on the number of producing gas wells, the production of natural gas including gross withdrawals from both gas and oil wells; volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on lease; marketed production; the value of marketed production; and quantity of marketed production (value based). From 2011 forward, the same items were obtained directly from the states or estimated by EIA where it was not available. From 2011 forward, the number of producing wells is from *World Oil Magazine*. All volumes are in thousand cubic feet at the states' standard pressure base and at 60 degrees Fahrenheit. All dollar values are reported in thousands.

[Form EIA-914, " Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"](#)

The Form EIA-914 is a sample survey of well operators in the Lower 48 states and 16 states or regions (Arkansas, California, Colorado, Kansas, Louisiana, Montana, North Dakota, New Mexico, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Offshore Gulf of Mexico). Current estimates of monthly production are based on this survey. The survey collects natural gas production volume information on a monthly basis, aggregated to the areas specifically requested. Two volumes are requested from respondents for each area in which they operate wells: (1) "gross withdrawals (wet)," which is the full-bore well stream gas minus lease condensate, oil, and water; and (2) "natural gas lease production," which is a measure indicating the net amount of produced gas leaving the lease to go to natural gas processing plants or directly to end-users. Estimates of gross withdrawals in a state are made from the reported gross withdrawal volumes. Marketed production is estimated from gross withdrawals using state estimates of repressuring, vented and flared, and nonhydrocarbon gases removed.

The EIA-914 survey form is an 11-page document, similar in format to other surveys in EIA's Office of Oil, Gas, and Coal Supply Statistics. The form was designed based on direct input from potential respondents during pre-survey design visits and the quality and usability of the survey instrument were established with cognitive testing conducted by survey methodologists in EIA's Statistics and Methods Group. Based on the test results, the form includes imbedded instructions, intended to help respondents complete the form without the need to refer to instructions located elsewhere.

A full description of the survey methodology may be found at the [EIA-914 Methodology](#).

[Form EIA-191, "Underground Natural Gas Storage Report"](#)

The Form EIA-191, "Monthly Underground Natural Gas Storage Report," is completed by approximately 131 companies that operate underground facilities in the United States (prior to 2013, Alaska data were not included in the EIA-191 survey). The final monthly and annual response rates are 100 percent. The Form EIA-191 monthly schedule contains current month data on the total quantities of gas in storage, injections and withdrawals, the location (including state and county, field, reservoir) and peak day withdrawals during the reporting period. The annual schedule contains type of facility, storage field capacity, maximum deliverability

and pipelines to which each field is connected. The annual schedule for the prior year is filed with the December submission.

Collection of the survey is on a custody basis. Information requested must be provided within 20 days after the last day of each month. Twelve reports are required per calendar year. Respondents are required to indicate whether the data reported are actual or estimated. For most of the estimated filings, the actual data or necessary revisions are submitted on separate forms for each month. Actual data on natural gas injections and withdrawals from underground storage are based on metered quantities. Data on quantities of gas in storage and on storage capacity represent, in part, reservoir engineering evaluations. All volumes are reported at 14.73 psia and 60 degrees Fahrenheit.

The *Monthly Energy Review* contains data from the Form EIA-191 survey.

[“Quarterly Natural Gas Import and Export Sales and Price Report”](#)

Beginning in 1995, import and export data have been taken from the “Quarterly Natural Gas Import and Export Sales and Price Report.” This report is prepared by the Office of Fossil Energy, U.S. Department of Energy, based on information submitted by all firms having authorization to import or export natural gas. The Office of Fossil Energy provides authorizations for imports or exports under Section 3 of the Natural Gas Act of 1938.

All companies are required, as a condition of their authorizations, to file monthly and quarterly reports with the Office of Fossil Energy. The data are reported at a monthly level of detail.

[Form EIA-857, “Monthly Report of Natural Gas Purchases and Deliveries to Consumers”](#)

Monthly price and volume data on gas deliveries are collected on the Form EIA-857 from a sample of respondents representing the 50 states and the District of Columbia. Response to Form EIA-857 is mandatory and data are considered proprietary. Completed forms are required to be submitted to EIA on or before the 30th day after the end of the report month.

A sample of approximately 325 natural gas companies, including interstate pipelines, intrastate pipelines, and local distribution companies, report to the survey. The sample was selected independently for each of the 50 states and the District of Columbia from a frame consisting of all respondents to Form EIA-176 who reported deliveries of natural gas to consumers in the residential, commercial, or industrial sectors. Each selected company is required to complete and file the Form EIA-857 monthly. Each month about half the responses are received by the due date although response rates by first publication of the relevant month are approximately 95 percent. When a response is extremely late, volumes are imputed, as described in Appendix C, “Statistical Considerations.” When the company’s submission is eventually received, the submitted data are entered into the data system and used for subsequent processing and revisions.

Form EIA-857 data are used to estimate monthly sales of natural gas (volume and price) by state and monthly deliveries of natural gas on behalf of others (volume) by state to three consumer sectors --residential, commercial, and industrial. Data from Form EIA-857 are also used to calculate the citygate price. See Appendix

C for a discussion of the sample design and estimation procedures. Monthly prices of natural gas to the electric power sector are calculated from data reported on Form EIA-923, "Electric Power Plant Operations." Data from Form EIA-857 are also used to calculate the citygate price.

Form EIA-910, "Monthly Natural Gas Marketer Survey"

The Form EIA-910, "Monthly Natural Gas Marketer Survey," collects information on natural gas sales from marketers in selected states (Florida, Georgia, Illinois, Maryland, Massachusetts, Michigan, New Jersey, New York, Ohio, Pennsylvania, West Virginia, Virginia, and the District of Columbia) that have active customer choice programs. Beginning in 2011, the EIA-910 is collected only in Georgia, New York and Ohio. These states were selected based on the percentage of natural gas sold by marketers in the residential and commercial end-use sectors. The survey collects monthly price and volume data on natural gas sold by all marketers in the selected states. A natural gas marketer is a company that competes with other companies to sell natural gas service, but relies on regulated local distribution companies to deliver the gas. The data collected on the Form EIA-910 are integrated with residential and commercial price data from the Form EIA-857 for the states where the EIA-910 data are collected as data quality becomes acceptable. Response to the EIA-910 is mandatory and data are considered proprietary.

Approximately 160 natural gas marketers currently report to the survey. Final monthly survey response rates are 100 percent. Responses are filed with EIA in Washington, DC, on or before the 30th day after the end of the report month.

All natural gas volumes are reported in thousand cubic feet at 14.73 psia at 60 degrees Fahrenheit, and dollar values are reported as whole dollar.

This page intentionally blank.

Appendix C

Statistical Considerations

The monthly volumes and prices of natural gas to residential, commercial, and industrial consumers presented in this report by state are estimated from data reported on the Form EIA-857, “Monthly Report of Natural Gas Purchases and Deliveries to Consumers.”

Monthly prices in select states are supplemented with data from the Form EIA-910, “Monthly Natural Gas Marketer Survey.” (See Appendix B, “Data Sources,” for a description of these Forms.)

A description of the sample design and the estimation procedures is given below.

Sample Design

The Form EIA-857 implements a monthly sample survey of companies delivering natural gas to consumers. It includes inter- and intrastate pipeline companies and local distribution companies.

The survey provides data that are used each month to estimate the volume of natural gas delivered and the price for onsystem sales of natural gas by state to three consumer sectors—residential, commercial, and industrial.

Monthly deliveries and prices of natural gas to the electric power sector are reported on the Form EIA-923, “Power Plant Operations Report.”

Sample Universe. The sample in use for 2018 was selected from a universe of 1,591 companies. These companies were respondents to the Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition,” for reporting year 2016, who reported sales or deliveries to consumers in the residential, commercial, or industrial sectors. (See Appendix B for a description of the Form EIA-176.)

Sampling Plan. Beginning in 2012, EIA changed its sample design from single stage probability-proportional-to-size (“PPS”) to a cut off sample in order to reduce respondent burden and decrease processing costs. The skewness of the volume of reported natural gas within the primary traditional sectors of interest for the EIA-857, residential, commercial, and industrial, is sufficiently large to enable a cut-off design that will maintain estimates of similar quality as under the previous PPS sample design.

One of the purposes of the sample is to provide a ratio useful for scaling the monthly state sector volumes in the sample up to precise estimates of the actual state sector monthly volumes. In cases where at most two suppliers in a state service a particular sector, all suppliers are included in the cut off sample. In states with more than two suppliers in a sector, the cut off sample is constructed by adding suppliers in descending order of volume until the change in the ratio of interest is considered statistically insignificant.

The single stage PPS sample design typically yielded approximately 390 respondents for the EIA-857 during 2009-2011. The cutoff sample approach as described above reduces this figure to approximately 300 respondents.

Estimation Procedures

Estimates of Volumes. Total gas sales and deliveries is estimated as the sum of estimated volume of natural gas sales by EIA-857 sample companies and estimated volume of natural gas transported on behalf of others by EIA-857 sample companies. To estimate each component volume for a state, a ratio estimator is calculated separately for the volume of natural gas sales by EIA-857 sample companies and the volume of natural gas transported on behalf of others by EIA-857 sample companies. These ratios are then applied to the reported sales volumes and transportation volumes respectively. This is done in each state by sector for the sampled companies.

Ratio estimators are typically calculated for each consumer sector — residential, commercial, and industrial — in each state where companies are sampled using annual data from the most recent submission of Form EIA-176.

The classical ratio estimator (CRE) for the volume of gas in a state for consumer sector j is:

$$V_j = \sum_{i \in S} y_{ij} + \frac{\sum_{i \in S} y_{ij}}{\sum_{i \in S} x_{ij}} \sum_{i \notin S} x_{ij}$$

or

(1)

$$V_j = \frac{\sum_{i \in S} y_{ij}}{\sum_{i \in S} x_{ij}} \sum_{i \in S \cup S^c} x_{ij}$$

where for either the natural gas sales by **EIA-857 sample companies** or the natural gas transported on behalf of others by EIA-857 sample companies:

V_j = the estimate of monthly gas volumes in a state for consumer sector j ,

y_{ij} = the monthly volume within a state for sector j and company i ,

x_{ij} = the annual volume within a state for sector j and company i ,

Ideally, the ratio $\frac{\sum_{i \in S} y_{ij}}{\sum_{i \in S} x_{ij}}$ is calculated separately for each state by sector cross classification. However, because certain states have extremely small sample sizes, we combine some states for estimation purposes only, in order to obtain more stable estimates. The state groupings are referred to as estimation groups. For most states, especially the large ones, the ratio will continue to be estimated separately as described above. The final volume estimates, V_j , will continue to be published separately for all states.

When an estimation group involves more than one state, such states are geographical neighbors, and the states in each group fall within a temperature and precipitation region, as defined by the National Climatic Data Center (NCDC).

Grouping states this way is an application of small area estimation, where more reliable estimates are obtained by “borrowing strength” from neighboring states with similar climate patterns. For more details see <http://interstat.statjournals.net/YEAR/2014/articles/1405001.pdf>

For most respondents, the estimation of residential and commercial consumption requires one additional step than the industrial sector. In this extra step the company level reported volumes are adjusted using sendout.

Sendout, which was added to Form EIA-857 for the August 2010 report month, is the total volume of gas dispatched for delivery during a calendar month. It should be noted that the adjusted volumes for the residential and commercial sector are used in equation 2.

The adjustment is implemented by taking reported sendout and removing gas that is consumed in company operations and distribution use as well as gas delivered to electric power, industrial, and vehicle use sectors. The remaining gas is allocated to the residential and commercial sectors proportionally based on reported totals for the report month. For a small number of companies, the adjustment to sendout is applied to all sectors in order to better represent their billing practices. In these cases, sendout is applied to all end-use sectors proportionally instead of just to residential and commercial.

The formulas for adjusting the reported residential and commercial volumes at the company level are:

$$R_{adj} = (SO * (1 - Oth) - EP - IN) * \frac{R}{R + C} \quad (2)$$

$$C_{adj} = (SO * (1 - Oth) - EP - IN) * \frac{C}{R + C} \quad (3)$$

where:

R_{adj} = sendout adjusted residential volume,

C_{adj} = sendout adjusted commercial volume,

SO = sendout volume,

Oth = ratio of annual distribution use and vehicle fuel to total deliveries,

EP = reported electric power volume,

IN = reported industrial volume,

R = reported residential volume,

C = reported commercial volume.

Estimates of Revenue. Revenue is calculated similarly to volumes. Sales revenue is estimated as the sum of estimated revenue from natural gas sales by EIA-857 sample companies for each sector by state and applying the ratio estimator in equation 1. Similar to volumes, states are combined if the sample size (by sector) is too small in order to estimate the ratio.

Computation of Natural Gas Prices. The natural gas volumes that are included in the computation of prices represent only those volumes associated with natural gas sales by natural gas companies except as explained below.

The price of natural gas within a state for sector j is calculated as follows:

$$P_j = \frac{R_j}{V_j} \quad (4)$$

where:

P_j = the average price for gas sales within a state for consumer sector j ,

R_j = the reported revenue from natural gas sales within a state for consumer sector j ,

V_j = the reported volume of natural gas sales within a state for consumer sector j .

All average prices are weighted by their corresponding sales volume estimates when national average prices are computed.

For select states (Georgia, New York and Ohio), the monthly average prices of natural gas to residential and commercial consumers are based on total sales (sales by local distribution companies and natural gas marketers). See the Form EIA-910 description in Appendix B, "Data Sources," for details.

Volumes of gas delivered for the account of others to these consumer sectors are not included in the state or national average prices except in these states.

The price of natural gas in the residential and commercial sectors where EIA-910 data are used is calculated as follows:

$$P_c = \left[\left(\frac{R_s}{V_s} \right) * \left(\frac{V_s}{V_s + V_t} \right) \right] + \left[\left(\frac{Rm_s}{Vm_s} \right) * \left(\frac{V_t}{V_s + V_t} \right) \right] = \frac{R_s + \left(\frac{Rm_s}{Vm_s} \right) * V_t}{V_s + V_t} \quad (5a)$$

for Georgia, and,

$$P_c = \left[\left(\frac{R_s}{V_s} \right) * \left(\frac{V_s}{V_s + V_t} \right) \right] + \left[\left(\frac{Rm_s}{Vm_s} + \frac{R_t}{V_t} \right) * \left(\frac{V_t}{V_s + V_t} \right) \right] = \frac{R_s + \left(\frac{Rm_s}{Vm_s} \right) * V_t + R_t}{V_s + V_t} \quad (5b)$$

for New York and Ohio, where:

P_c = the combined average price for gas sales by local distribution companies and marketers within the state in sector s (residential or commercial),

R_s = the estimated revenue from natural gas sales by local distribution companies within the state in sector s (residential or commercial),

V_s = the estimated volume of natural gas sales by local distribution companies within the state in sector s (residential or commercial),

V_t = the estimated volume of natural gas transported by local distribution companies for marketers within the state in sector s (residential or commercial),

Rm_s = the reported revenue from natural gas sales by marketers within the state in sector s (residential or commercial),

Vm_s = the reported volume of natural gas sales by a marketer within the state in sector s (residential or commercial),

R_t = the estimated revenue from natural gas transported by local distribution companies for marketers within the state in sector s (residential or commercial).

Table 24 shows the percent of the total state volume that represents volumes from natural gas sales to the residential, commercial, and industrial sectors. This table may be helpful in evaluating residential, commercial, and industrial price data.

Estimation for Nonrespondents and Edit Failures.

A volume for each delivered and transported consumer category is imputed for companies that fail to respond in time for inclusion in the published estimates (unit nonresponse) or for which reported volumes have failed the edit and not been confirmed or corrected (item nonresponse).

In the case of unit nonresponse and edit failures, the imputed volumes and revenues for the residential, commercial, and industrial sectors are predicted using CRE. In other words, they are predicted the same way as out of sample cases. In particular, for company i , which can be a nonrespondent, edit failure or not sampled, the predicted value is given as:

$$y_{ij}^* = \frac{\sum_{i \in s, j} y_{ij}}{\sum_{i \in s, j} x_{ij}} x_{ij}^*$$

where:

y_{ij}^* = the estimated value (volume or revenue) of the nonrespondent company or for a company value that fails an edit,

x_{ij}^* = the reported value (volume or revenue) of the nonrespondent company from the latest Form EIA 176 survey.

Again the ratio $\frac{\sum_{i \in s} y_{ij}}{\sum_{i \in s} x_{ij}}$ is calculated separately for most states, but several states can be combined as described in the “Estimates of Volume” section above when sample size is too small for a state by sector classification.

Final Revisions

Adjusting Monthly Data to Annual Data. After the annual data reported on the Form EIA-176 have been submitted, edited, and prepared for publication in the [Natural Gas Annual](#) (NGA), revisions are made to monthly data.

The revisions are made to the volumes and prices of natural gas delivered to consumers that have appeared in the *Natural Gas Monthly* (NGM) to match them to the annual values appearing in the *Natural Gas Annual*.

The revised monthly estimates allocate the difference between the sum of monthly estimates and the annual reports, according to the distribution of the estimated values across the months.

Before the final revisions are made, changes or additions to submitted data received after publication of the monthly estimate and not sufficiently large to require a revision to be published in the NGM, are used to derive an updated estimate of monthly consumption and revenues for each state's residential, commercial, or industrial natural gas consumption.

For each state, two numbers are revised, the estimated consumption and the estimated price per thousand cubic feet.

The formula for revising the estimated consumption is:

$$V_{jm}^* = V_{jm} \left(\frac{V_{ja}}{V'_{jm}} \right) \quad (6)$$

where:

V_{jm}^* = the final volume estimate for month m in consumer sector j,

V_{jm} = the estimated volume for month m in consumer sector j,

V_{ja} = the volume for the year reported on Form EIA-176,

V'_{jm} = the annual sum of estimated monthly volumes.

The price is calculated as described above in the Estimation Procedures section, using the final revised consumption estimate and a revised revenue estimate.

The formula for revising the estimated revenue is:

$$R_{jm}^* = R_{jm} \left(\frac{R_{ja}}{R'_{jm}} \right) \quad (7)$$

where:

R_{jm}^* = the final revenue estimate for month m in consumer sector j,

R_{jm} = the estimated revenue for month m in consumer sector j ,

R_{ja} = the revenue for the year reported on Form EIA-176,

R'_{jm} = the annual sum of estimated monthly revenues.

Revision of Volumes and Prices for Deliveries to Electric Power Sector. Revisions to monthly deliveries to the electric power sector are published throughout the year as they become available.

Reliability of Monthly Data

The monthly data published in this report are subject to two sources of error — nonsampling error and sampling error. Nonsampling errors occur in the collection and processing of the data.

See the discussion of the Form EIA-857 in Appendix B for a description of nonsampling errors for monthly data.

Sampling error may be defined as the difference between the results obtained from a sample and the results that a complete enumeration would provide. The standard error statistic is a measurement of sampling error.

Standard Errors. A standard error of an estimate is a statistical measure that indicates how the estimate from the sample compares to the result from a complete enumeration.

The standard errors for monthly natural gas volume and price estimates by state are given in Table C1. They are constructed so that over the long run the true value is within two standard errors of its estimate 95% of the time. For volume estimates, the relative standard error (RSE) is published as a percent. Standard errors of prices are expressed in dollars.

The relative standard error of a natural gas volume estimate is the square root of the variance of the estimate divided by the published volume. The formula for calculating the variance of the volume estimate is:

$$Var(V_j) = \sigma_\epsilon^2 \sum_{i=n+1}^N x_{ij} + \left(\frac{\sigma_\epsilon^2}{\sum_{i=1}^n x_{ij}} \right) \left(\sum_{i=n+1}^N x_{ij} \right)^2 \quad (8)$$

where:

$V_{.j}$ = the estimate of monthly gas volumes in a state for sector j ,

$\sigma_\epsilon^2 = \frac{\sum_{i=1}^n \sigma_{0i}^2}{(n-1)}$, the sum of squared residuals,

$\sigma_{0i} = \frac{(y_{ij} - T_{.j} x_{ij})}{\sqrt{x_{ij}}}$, the weighted residual for company i ,

$T_{.j}$ = the ratio estimator defined in equation 1,

x_{ij} = the reported annual volume for company i in sector j ,

y_{ij} = the reported monthly volume for company i in sector j ,

n = sample size ($i > n$ implies company i not in sample),

N = frame size.

As the price of natural gas is calculated as a quotient of revenue to volume, the standard error of natural gas prices is derived using the variance properties of a quotient. The variance of revenue is calculated in the same manner as the volumes described in equation 8, with revenue substituted for volume. The formula for calculating the standard error of the price in equation 4 is:

$$\text{Var}(P_j) = \text{Var}\left(\frac{R_j}{V_j}\right) = \left(\frac{R_j}{V_j}\right)^2 * \left(\frac{\text{Var}(R_j)}{R_j^2} + \frac{\text{Var}(V_j)}{V_j^2} - 2\frac{\text{Cov}(R_j, V_j)}{R_j * V_j}\right) \quad (9)$$

where:

P_j = natural gas price in sector j,

V_j = volume in sector j, which is estimated in equation 1,

R_j = revenue in sector j, which is estimated in same manner as equation 1,

$\text{Var}(V_j)$ = the variance of volume in sector j calculated using equation 8,

$\text{Var}(R_j)$ = the variance of revenue in sector j calculated in the same manner as equation 8,

$\text{Cov}(V_j, R_j)$ = the covariance between revenue and volume in sector j. The formula for estimating the covariance is:

$$\left[\left(\sum_{i=n+1}^N x_{Rij} \right) \left(\sum_{i=n+1}^N x_{Vij} \right) \frac{\sum_{i=1}^n \sqrt{x_{Rij} x_{Vij}}}{\left(\sum_{i=1}^n x_{Rij} \right) \left(\sum_{i=1}^n x_{Vij} \right)} + \sum_{i=n+1}^N \sqrt{x_{Rij} x_{Vij}} \right] \\ * \left[\left(\frac{1}{n-1} \right) \sum_{i=1}^n \sqrt{x_{Rij} x_{Vij}} (y_{Rij} - T_{Rj})(y_{Vij} - T_{Vj}) \right]$$

and,

x_{Rij} = the reported annual revenue for company i in sector j,

x_{Vij} = the reported annual volume for company i in sector j,

y_{Rij} = the reported monthly revenue for company i in sector j,

y_{Vij} = the reported monthly volume for company i in sector j,

$$T_{Rj} = \frac{\sum_{i \in s} y_{Rij}}{\sum_{i \in s} x_{Rij}},$$

$$T_{Vj} = \frac{\sum_{i \in s} y_{Vij}}{\sum_{i \in s} x_{Vij}}.$$

The formula for calculating the standard error of price in equations 5a and 5b is derived after a suitable expansion that involves repeated applications of equations 8 and 9.

Table C1. Standard error for natural gas deliveries and price by consumers, by state, May 2019

State	Volume Relative Standard Error (Percent)				Price (Dollars per Thousand Cubic Feet)		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	NA	NA	1.6	NA	0.32	0.16	0.05
Alaska	0.9	NA	0.0	NA	0.03	NA	0.00
Arizona	1.8	1.9	3.2	1.3	0.14	0.07	0.03
Arkansas	0.7	0.1	3.0	1.9	0.03	0.01	0.06
California	1.3	0.6	0.5	0.5	0.22	0.09	0.31
Colorado	0.6	0.8	1.8	0.7	0.06	0.07	0.06
Connecticut	0.4	0.5	0.0	0.3	0.14	0.17	0.03
Delaware	0.0	0.0	0.0	0.0	0.00	0.00	0.00
District of Columbia	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Florida	2.6	0.7	2.9	1.8	0.51	0.64	0.75
Georgia	0.0	0.0	1.2	0.0	0.08	0.05	0.12
Hawaii	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Idaho	0.7	0.8	0.0	0.2	0.01	0.01	0.00
Illinois	0.7	0.9	3.1	1.3	0.12	0.17	NA
Indiana	2.0	0.7	2.3	1.9	0.19	0.21	0.38
Iowa	2.1	1.5	0.9	0.8	0.13	0.15	0.16
Kansas	1.6	0.5	2.8	2.0	0.18	0.14	0.14
Kentucky	4.2	2.7	3.6	2.9	0.44	0.15	0.17
Louisiana	2.9	1.7	1.6	1.5	0.19	0.13	0.11
Maine	5.3	5.1	0.1	1.3	1.30	0.48	0.09
Maryland	0.5	1.1	4.6	0.9	0.05	NA	0.00
Massachusetts	0.9	1.0	2.7	0.9	0.25	0.58	0.46
Michigan	1.1	0.6	1.4	0.7	0.11	0.07	0.09
Minnesota	3.8	1.6	6.0	3.3	0.08	0.11	0.16
Mississippi	1.3	1.2	4.0	3.5	0.13	0.12	NA
Missouri	2.6	1.3	2.3	1.3	0.06	0.12	0.20
Montana	NA	NA	0.1	NA	NA	NA	0.14
Nebraska	0.5	0.5	2.9	1.9	0.07	0.09	0.11
Nevada	0.0	0.0	0.1	0.0	0.00	0.00	0.03
New Hampshire	0.0	0.0	0.0	0.0	0.00	0.00	0.00
New Jersey	0.0	0.0	0.9	0.2	0.00	0.18	0.00
New Mexico	2.2	0.5	2.4	1.1	0.12	NA	0.00
New York	0.0	0.0	3.7	0.0	0.08	0.03	0.22
North Carolina	NA	1.3	1.2	NA	NA	0.03	0.35
North Dakota	0.3	0.3	0.2	0.2	0.02	0.02	0.00
Ohio	0.0	0.0	1.1	0.0	0.11	0.02	0.35
Oklahoma	1.6	0.8	1.4	1.1	0.05	0.19	0.07
Oregon	0.0	0.0	1.0	0.6	0.00	0.00	NA
Pennsylvania	2.0	2.2	2.1	1.3	0.00	NA	0.45
Rhode Island	0.0	0.0	0.0	0.0	0.00	0.00	0.00
South Carolina	4.5	2.2	2.2	1.8	NA	0.17	NA
South Dakota	0.7	0.4	2.0	1.5	0.02	0.01	0.00
Tennessee	2.2	2.4	1.9	1.5	0.29	0.11	0.08
Texas	1.5	2.2	1.3	1.2	0.98	0.55	0.03
Utah	NA	NA	0.0	NA	0.00	0.00	0.02
Vermont	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Virginia	1.5	1.1	1.0	0.7	0.37	0.27	0.29
Washington	1.5	1.4	1.1	0.8	0.11	0.15	0.21
West Virginia	6.7	0.8	3.2	2.2	0.82	0.15	0.00
Wisconsin	1.7	1.2	1.0	0.7	0.10	0.09	0.09
Wyoming	0.4	1.8	3.1	2.3	0.03	0.02	0.05
Total	0.3	0.3	0.4	0.3	0.05	0.05	0.02

NA Not available.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

This page intentionally blank.

Glossary

Aquifer Storage Field: A sub-surface facility for storing natural gas, consisting of water-bearing sands topped by an impermeable cap rock.

Balancing Item: Represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to data reporting or survey coverage problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

Base (Cushion) Gas: The volume of gas needed as a permanent inventory to maintain adequate reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit).

Btu Per Cubic Foot: The total heating value, expressed in Btu, produced by the combustion, at constant pressure, of the amount of the gas that would occupy a volume of 1 cubic foot at a temperature of 60 degrees F if saturated with water vapor and under a pressure equivalent to that of 30 inches of mercury at 32 degrees F and under standard gravitational force (980.665 cm. per sec. squared) with air of the same temperature and pressure as the gas, when the products of combustion are cooled to the initial temperature of gas and air when the water formed by combustion is condensed to the liquid state.(Sometimes called gross heating value or total heating value.)

Citygate: A point or measuring station at which a gas distribution company receives gas from a pipeline company or transmission system.

Commercial Consumption: Gas used by nonmanufacturing establishments or agencies primarily engaged in the sale of goods or services such as hotels, restaurants, wholesale and retail stores and other service enterprises; and gas used by local, state and federal agencies engaged in nonmanufacturing activities.

Compressed Natural Gas (CNG): Natural gas which is comprised primarily of methane, compressed to a pressure at or above 2,400 pounds per square inch and stored in special high-pressure containers. It is used as a fuel for natural gas powered vehicles.

Depleted Storage Field: A sub-surface natural geological reservoir, usually a depleted oil or gas field, used for storing natural gas.

Dry Natural Gas Production: The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at

the production site include (1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and (2) gas vented and flared. Processing losses include (1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and (2) gas converted to liquid form, such as lease condensate and plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals marketed production less natural gas plant liquid production.

Electric Power Consumption: Gas used as fuel in the electric power sector.

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public – i.e., North American Industry Classification System 22 plants.

Exports: Natural gas deliveries out of the continental United States (including Alaska) to foreign countries.

Gas Well: A well completed for production of natural gas from one or more gas zones or reservoirs. Such wells contain no completions for the production of crude oil.

Gross Withdrawals: Full well stream volume, including all natural gas plant liquid and nonhydrocarbon gases, but excluding lease condensate. Also includes amounts delivered as royalty payments or consumed in field operations.

Heating Value: The average number of British thermal units per cubic foot of natural gas as determined from tests of fuel samples.

Imports: Natural gas received in the Continental United States (including Alaska) from a foreign country.

Industrial Consumption: Natural gas used for heat, power, or chemical feedstock by manufacturing establishments or those engaged in mining or other mineral extraction as well as consumers in agriculture, forestry, and fisheries. Also included in industrial consumption are generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Intransit Deliveries: Redeliveries to a foreign country of foreign gas received for transportation across U.S. territory and deliveries of U.S. gas to a foreign country for transportation across its territory and redelivery to the United States.

Intransit Receipts: Receipts of foreign gas for transportation across U.S. territory and redelivery to a foreign country and redeliveries to the United States of U.S. gas transported across foreign territory.

Lease and Plant Fuel: Natural gas used in well, field, lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and as fuel in natural gas processing plants.

Liquefied Natural Gas (LNG): Natural gas (primarily methane) that has been liquefied by reducing its temperature to -260 degrees Fahrenheit at atmospheric pressure.

Local Distribution Company (LDC): A legal entity engaged primarily in the retail sale and/or delivery of natural gas through a distribution system that includes mainlines (that is, pipelines designed to carry large volumes of gas,

usually located under roads or other major right-of-ways) and laterals (that is, pipelines of smaller diameter that connect the end user to the mainline). Since the restructuring of the gas industry, the sale of gas and/or delivery arrangements may be handled by other agents, such as producers, brokers, and marketers that are referred to as "non-LDC."

Marketed Production: Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

Native Gas: Gas in place at the time that a reservoir was converted to use as an underground storage reservoir, as in contrast to injected gas volumes.

Natural Gas: A gaseous mixture of hydrocarbon compounds, the primary one being methane. Note: The Energy Information Administration measures wet natural gas and its two sources of production, associated/dissolved natural gas and nonassociated natural gas, and dry natural gas, which is produced from wet natural gas.

Natural Gas Liquids (NGL): A group of hydrocarbons including ethane, propane, normal butane, isobutane, and natural gasoline. Generally include natural gas plant liquids and all liquefied refinery gases, except olefins.

Natural Gas Marketer: A company that arranges purchases and sales of natural gas. Unlike pipeline companies or local distribution companies, a marketer does not own physical assets commonly used in the supply of natural gas, such as pipelines or storage fields. A marketer may be an affiliate of another company, such as a local distribution company, natural gas pipeline, or producer, but it operates independently of other segments of the company. In states with residential choice programs, marketers serve as alternative suppliers to residential users of natural gas, which is delivered by a local distribution company.

Natural Gas Plant Liquids (NGPL): Those hydrocarbons in natural gas that are separated as liquids at natural gas processing, fractionating, and cycling plants. Products obtained include ethane, liquefied petroleum gases (propane and butanes), and natural gasoline. Component products may be fractionated or mixed. Lease condensate and plant condensate are excluded.

Natural Gas Plant Liquids (NGPL) Production: The extraction of gas plant liquids constituents such as ethane, propane, normal butane, isobutane, and natural gasoline, sometimes referred to as extraction loss. Usually reported in barrels or gallons, but may be reported in cubic feet for purposes of comparison with dry natural gas volumes.

Nominal Dollars: A measure used to express nominal price.

Nominal Price: The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

Onsystem Sales: Sales to customers where the delivery point is a point on, or directly interconnected with, a transportation, storage, and/or distribution system operated by the reporting company.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Repressuring: The injection of gas into oil or gas formations to effect greater ultimate recovery.

Residential Consumption: Gas used in private dwellings, including apartments, for heating, cooking, water heating, and other household uses.

Salt Cavern Storage Field: A storage facility that is a cavern hollowed out in either a “salt bed” or “dome” formation.

Storage Additions: Volumes of gas injected or otherwise added to underground natural gas reservoirs or liquefied natural gas storage.

Storage Withdrawals: Total volume of gas withdrawn from underground storage or from liquefied natural gas storage over a specified amount of time.

Supplemental Gaseous Fuels Supplies: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Underground Gas Storage Reservoir Capacity: Interstate company reservoir capacities are those certificated by FERC. Independent producer and intrastate company reservoir capacities are reported as developed capacity.

Vehicle Fuel Consumption: Natural gas (compressed or liquefied) used as vehicle fuel.

Working (Top Storage) Gas: The volume of gas in an underground storage reservoir above the designed level of the base. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.